



National Institute on Alcohol Abuse and Alcoholism

National Institute on Alcohol Abuse and Alcoholism
Division of Biometry and Epidemiology
Alcohol Epidemiologic Data System

SURVEILLANCE REPORT #55

APPARENT PER CAPITA ALCOHOL CONSUMPTION: NATIONAL, STATE, AND REGIONAL TRENDS, 1977-98

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HIGHLIGHTS

This surveillance report on apparent per capita alcohol consumption in the United States is the 15th in a series of consumption reports produced annually by the National Institute on Alcohol Abuse and Alcoholism (NIAAA). Findings are based on alcoholic beverage sales data, either collected directly by the Alcohol Epidemiologic Data System (AEDS) or provided by beverage industry sources. Population data provided by the U.S. Census Bureau are used to calculate per capita rates. The following are highlights from the current report which updates consumption trends through 1998:

- After a 0.5 percent increase in per capita consumption in 1997, per capita consumption of ethanol from all alcoholic beverages combined increased by 0.4 percent in 1998 (2.19 vs 2.18 gallons ethanol). Despite this increase, per capita consumption in 1998 remains near the recent low of 2.15 gallons ethanol, recorded in 1995. Between 1997 and 1998, per capita consumption increased for beer (from 1.24 to 1.25 gallons ethanol), and remained unchanged for wine (0.31 gallons ethanol) and spirits (0.63 gallons ethanol).
- Changes in overall per capita alcohol consumption among the States and the District of Columbia between 1997 and 1998 included increases in 36 States and decreases in 14 States and the District of Columbia. This contrasts strongly with 1997 when overall per capita consumption increased in 15 States and the District of Columbia, decreased in 29 States, and did not change in 6 States.
- Analysis of overall per capita alcohol consumption by Census region between 1997 and 1998 indicated overall per capita decreases in the Northeast (0.2 percent) and West (1.2 percent), but increases in the Midwest (1.2 percent) and South (0.8 percent).
- The prospect of reaching the Year 2000 national objective of reducing per capita consumption to no more than 2 gallons ethanol does not appear promising. To meet the Year 2000 objective, total per capita ethanol consumption must decrease by 8.6 percent, or an average of 4.3 percent annually through 1999 and 2000.

INTRODUCTION

This surveillance report on per capita consumption of alcohol in the United States is the 15th in a series of reports (Nephew et al. 1999, Williams et al. 1998, 1997, 1996, 1995, 1994, 1993, 1992, 1991a, b; Brooks et al. 1989; Steffens et al. 1988; Laforge et al. 1987; Doernberg et al. 1986) that examine alcohol consumption trends on a national, State, and regional basis. Like previous reports on per capita alcohol consumption, it is intended to provide updated alcohol information for policymakers, health care providers, researchers, and others concerned about alcohol issues. This report adds coverage for 1998 and was prepared by AEDS staff under the supervision of NIAAA's Division of Biometry and Epidemiology. Other new surveillance reports prepared by AEDS and

NIAAA staff include alcohol-related fatal crashes (Yi et al. 2000) and liver cirrhosis mortality (Saadatmand et al. 2000). NIAAA's surveillance report series also includes an examination of trends in alcohol-related hospital discharges. This report was last published in 1999 (Whitmore, Stinson, and Dufour 1999); a new edition will be published in 2001.

Major findings in this report are presented in three sections. The first section presents national data on trends in beer, wine, and spirits consumption, as well as on all alcoholic beverages combined. The second section presents data on alcohol consumption trends for individual States. States also are ranked in deciles according to total ethanol consumption. The third section presents data on consumption trends for each type of beverage and all beverages combined for the Northeast, Midwest, South, and West regions defined by

the U.S. Census Bureau. The prior surveillance report on per capita alcohol consumption (Nephew et al. 1999) included a fourth section examining consumption rates based on the estimated population of current drinkers, as opposed to the total population of persons ages 14 and older. This section is omitted from this report because the data source (Behavioral Risk Factors Survey, BRFS) for estimates of current drinkers used for these rates did not include questions on alcohol consumption in 1998. The 1999 BRFS did ask questions on alcohol consumption; thus, the fourth section of this surveillance report series will appear in the report on 1999 data. The surveillance report on 1997 data does contain tables on per capita consumption among drinkers and is available in the Publications section on NIAAA's internet site (<http://www.niaaa.nih.gov>).

Sources and Limitations of Data

To interpret the data in this report correctly, readers should keep the following points in mind:

- AEDS attempts to obtain alcoholic beverage sales data from every State and the District of Columbia because sales data more accurately reflect actual consumption of alcoholic beverages than do production and shipments data from beverage industry sources. AEDS received complete beverage sales and/or tax receipts reports for 1998 from 10 States for beer, 11 States for wine, and 10 States for spirits. For the remaining States and the District of Columbia, shipments data from major beverage industry sources (Beer Institute 2000; Distilled Spirits Council of the United States 1999; Motto, Kryla, and Fisher LLP 2000) were used for the numerator to calculate per capita consumption. Although sales and tax receipt data tend to provide slightly lower per capita estimates (about .01 to .02 points per capita), the mixed use of data from sales and shipments sources appears to have little effect on overall trends in per capita alcohol consumption (Campbell et al. 1994). State population estimates for

persons ages 14 and older were obtained from the Internet site of the U.S. Census Bureau and used as denominators to calculate the per capita consumption figures.

- AEDS uses a drinking population ages 14 and older to calculate per capita consumption rates. Although age 14 is below the minimum legal age for the purchase of alcoholic beverages throughout the United States, most self-report surveys indicate that many 14-year-olds drink alcoholic beverages. Data in the 1992 National Longitudinal Alcohol Epidemiologic Survey (NLAES) indicate that 7.2 percent of current drinkers ages 18 and older started drinking before the age of 15 (AEDS 1997). Results from the *Monitoring the Future* survey in 1998 (Johnston et al. 2000) indicate that nearly half (43.7 percent) of eighth graders (13- to 14-year-olds) reported past-year use of alcohol (i.e., beyond a few sips).
- AEDS uses an estimate of average ethanol content in the alcoholic beverages to convert the gallons of sold or shipped beer, wine, and spirits into gallons of ethanol (pure alcohol) before calculating per capita estimates. The conversion coefficients (i.e., proportion of pure alcohol for each beverage type) are 0.045 for beer, 0.129 for wine, and 0.411 for spirits (Doernberg and Stinson 1985). In the process of developing a new AEDS Data Reference Manual on per capita consumption of alcohol for the years 1970 through 1994 (Stinson et al. 1997), it was discovered that the conversion factor for spirits was inadvertently changed to 0.414 for the year 1986 and subsequently used through 1993. The data in this report and the previous three surveillance reports (Williams et al. 1998, 1997, 1996) have been corrected. Readers should refer to the data in the AEDS Data Reference Manual (DRM) on per capita alcohol consumption (Stinson et al. 1997) for per capita consumption estimates prior to 1994. The DRM is available for downloading from NIAAA's

Internet site. Except for 1992, the conversion factor error for spirits had little effect on trends for either spirits or total per capita ethanol consumption. Even in 1992 the change in per capita ethanol consumption was minimal, with an increase of only 0.4 percent over 1991 versus the previously reported no change in 1992.

- The introduction of “light” beer, “light” wines, and coolers (both wine and spirits) may have slightly lowered the average ethanol content in some alcoholic beverages. For example, Kling (1991, 1989) suggests that there were decreases in the ethanol content of spirits during the 1980s. However, such decreases may be offset by the increase in sales of drinks with higher ethanol content, such as premium brand liquors, fortified wines, malt liquors, and locally produced beers and ales (microbrews). “Ice” beers and “dry” beers, for example, both have higher ethanol content than either premium or light beers (M. Shanken Communications, Inc. 1994). Therefore, any decrease in the average net ethanol content across all beverages has probably been minimal and not large enough to alter the trends in overall per capita consumption.
- Per capita consumption estimates in some States can be inflated by such factors as cross-border sales to buyers from neighboring States. Other factors that may influence per capita differences in consumption among States are age distributions of State populations, the extent of tourist and recreational trade, dry jurisdictions, types of off-premise outlets (e.g., grocery and convenience stores), general attitudes toward drinking, and the percentage of nondrinkers, or abstainers.
- In this report, AEDS uses the year 1977 as the base year for most of the comparative analyses. AEDS began collecting and calculating per capita consumption estimates from actual sales and/or tax receipt reports from individual States in 1977.

- Finally, individuals familiar with survey reports and other scientific literature often are accustomed to the presentation of significance tests, or confidence intervals, on any data comparisons or trends. However, when the data are based on total actual sales and/or shipments, as is the case in the present report, there is no sampling. Thus, without sampling error, no confidence intervals or measures of statistical significance need be reported. Nonetheless, it is important to note that these data are still only estimates and may be subject to reporting error. Some other important cautions regarding the use of the per capita alcohol consumption estimates are noted in the latest DRM on per capita alcohol consumption (Stinson et al. 1997).

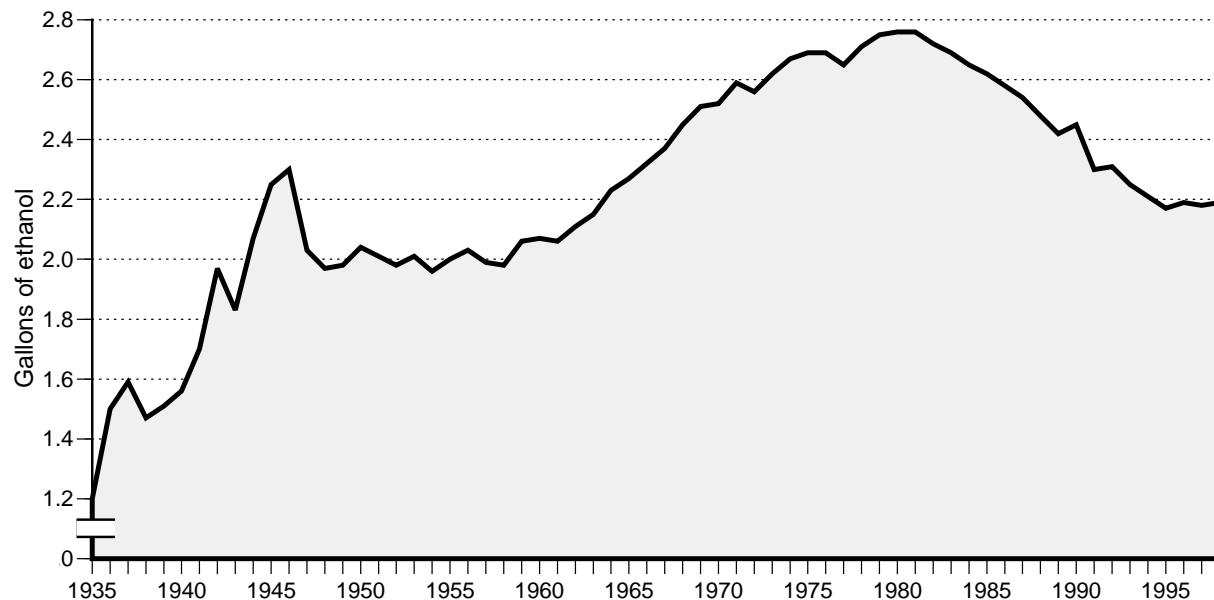
NATIONAL DATA

Background

Long-range trends on apparent per capita ethanol consumption by beverage type provide a historical perspective on national patterns of alcoholic beverage consumption. Excluding the years of Prohibition, table 1 (located at the end of this report) presents per capita estimates of consumption for beer, wine, spirits, and all beverages combined for the years 1850 to 1998. Figure 1 (on the following page) presents an area graph of per capita ethanol consumption in the United States for all alcoholic beverages combined for the years 1935 through 1998. A population base of persons ages 15 and older was used in the per capita estimates through 1969, and different conversions to pure alcohol (ethanol) were used within the beverage types prior to 1977 (Doernberg and Stinson 1985).

Table 1 shows that per capita ethanol consumption between 1850 and 1900 varied somewhat but decreased by 1.9 percent between those years. Total per capita consumption of ethanol decreased by 18 percent from 1901 to 1919, indicating a decrease in alcohol consumption prior to Prohibition. However, after Prohibition, from 1934 to 1939, total per capita consumption of

Figure 1. Total per capita ethanol consumption, United States, 1935–98.



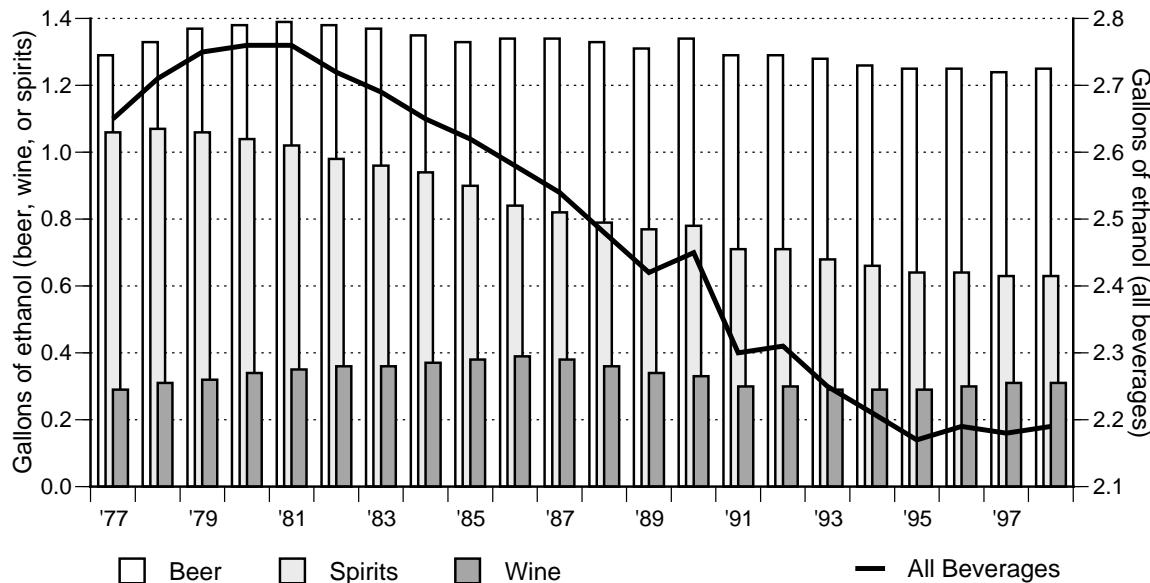
ethanol increased by 55.7 percent. As shown in figure 1, two distinct peaks in per capita consumption occurred during the 1940s—one in 1942 and one in 1946—resulting in an overall 26.9 percent increase in consumption. From 1950 through 1959, there were slight annual increases and decreases, with a very small increase of 1 percent in overall ethanol consumption. However, in the 1960s there was a fairly rapid increase in alcohol consumption (21.3 percent), followed by a moderate increase (9.1 percent) in the 1970s. During the 1980s per capita alcohol consumption decreased 12 percent—the only sustained decrease since Prohibition. Apparent per capita consumption of alcohol in 1990 increased by 1.2 percent from 1989, ending a decline that lasted through the 1980s. However, this 1990 increase was an anomaly caused by a late surge in sales in the last quarter of 1990, a result of the new Federal Excise Tax (FET) increases on alcoholic beverages in 1991 (Jobson Publishing Corporation 1992). In 1991 overall per capita alcohol consumption

dropped by 6.1 percent (from 2.45 to 2.30 gallons ethanol). Per capita consumption increased marginally in 1992 (0.4 percent) to 2.31 gallons ethanol, partially rebounding from the decrease in 1991. Between 1992 and 1993 overall per capita consumption decreased by 2.6 percent (from 2.31 to 2.25 gallons ethanol), and between 1993 and 1994, per capita consumption dropped by 1.8 percent. Between 1994 and 1995 overall per capita consumption declined by another 1.8 percent but increased by 0.9 percent in 1996. In 1997 per capita alcohol consumption again declined by 0.5 percent from its 1996 level, but in 1998 overall per capita consumption again increased by 0.4 percent, representing the fourth annual increase from 1990 through 1998. Even with these increases, overall per capita consumption for this same period decreased by 10.7 percent.

Apparent Per Capita Alcohol Consumption, 1977–97

Figure 2 presents separate per capita ethanol consumption estimates for beer, wine,

Figure 2. Per capita ethanol consumption by beverage type, United States, 1977–98.



and spirits for 1977 through 1998. Between 1997 and 1998, per capita consumption increased for beer (from 1.24 to 1.25 gallons ethanol), remained the same for wine (0.31 gallons ethanol), and remained the same for spirits (0.63 gallons ethanol). As it was in 1997, per capita consumption of spirits in 1998 was at its lowest level since 1939, continuing the downward trend seen in the 1990s.

Percent Change in Per Capita Consumption, 1977–98

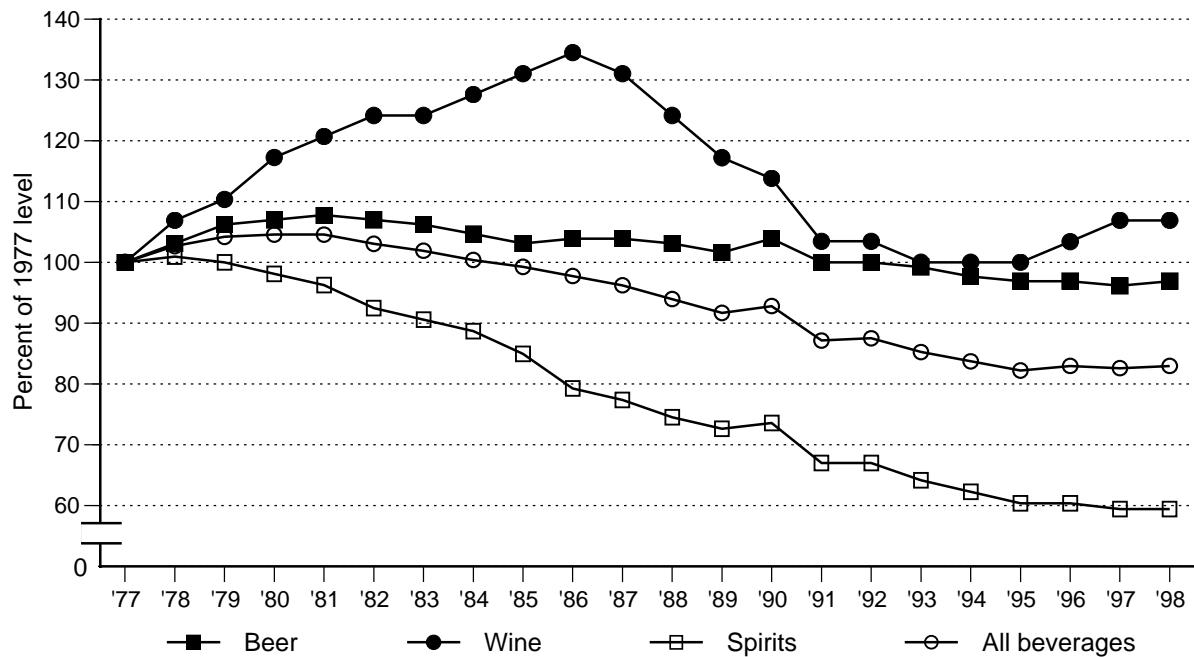
Figure 3 (on the following page) shows the percent change in overall per capita consumption for each year and beverage type relative to its 1977 value. The percent change for all alcoholic beverages combined increased gradually from 1977 to 1980, leveled off in 1980 and 1981, and then began an 8-year decline in 1982 that stopped with the increase in per capita consumption in 1990. Overall per capita consumption decreased in 1991, increased slightly in 1992, decreased in 1993, 1994, and 1995, increased again in 1996, resumed its decline in 1997, and increased

slightly in 1998. Since 1977, overall per capita consumption of alcohol has decreased by 17.0 percent.

Per capita consumption of beer increased gradually from 1977 to 1981, decreased from 1981 to 1985, increased marginally in 1986, remained the same in 1987, decreased in 1988 and 1989, increased in 1990, decreased again in 1991, remained the same in 1992, decreased in 1993, 1994, and 1995, showed no change in 1996, resumed its decline in 1997, and increased in 1998. Thus, per capita consumption of beer was 3.1 percent lower in 1998 than in 1977.

Except for 1983, per capita consumption of wine increased each year from 1977 to 1986, decreased from 1987 through 1991, remained level in 1992, decreased in 1993, showed no change in 1994 and 1995, increased in 1996 and again in 1997, and remained essentially the same in 1998. Since 1977 per capita consumption of wine has increased 6.9 percent.

Figure 3. Percent change in per capita ethanol consumption, United States, 1977–98.



Consumption of spirits increased marginally from 1977 to 1978, declined through 1989, increased slightly in 1990, leveled off in 1991 and 1992, decreased each year from 1993 to 1995, showed no change in 1996, decreased again in 1997, and remained essentially the same in 1998. Thus, per capita consumption of spirits in 1998 decreased by 40.6 percent from its 1977 level. The 21-year decline in total per capita consumption (2.64 gallons ethanol in 1977 versus 2.19 gallons ethanol in 1998) is a reflection of the substantial decline in per capita spirits consumption (1.06 gallons ethanol in 1977 versus 0.63 gallons in 1998). At 0.63 gallons ethanol in 1998, per capita consumption of spirits remains at its lowest level in 58 years.

In 1998 beer represented 57.0 percent of the per capita consumption of ethanol from all alcoholic beverages combined. Beer ranked fourth (behind soft drinks, coffee, and milk) in per capita consumption of any kind of beverage product, a position it has held for many years (Adams Business Media 1999).

Wine represented 14.1 percent of the per capita consumption of ethanol from all alcoholic beverages combined in 1998 and it ranked ninth (behind soft drinks, coffee, milk, beer, bottled water, tea, juices, and powdered drinks) in per capita consumption of all beverage products (Adams Business Media 1999). In 1998 distilled spirits comprised 28.9 percent of total ethanol consumed from all alcoholic beverages combined. Distilled spirits beverages ranked 10th in 1998 (behind soft drinks, coffee, milk, beer, bottled water, tea, juices, powdered drinks, and wine) in per capita consumption of all beverage products (Adams Business Media 1999).

STATE DATA

Apparent Consumption for 1998

Table 2 presents the 1998 consumption data on total beverage volume; total ethanol volume; and per capita ethanol volume of beer, wine, spirits, and total beverages for each of the 50 States and the District of Columbia. The

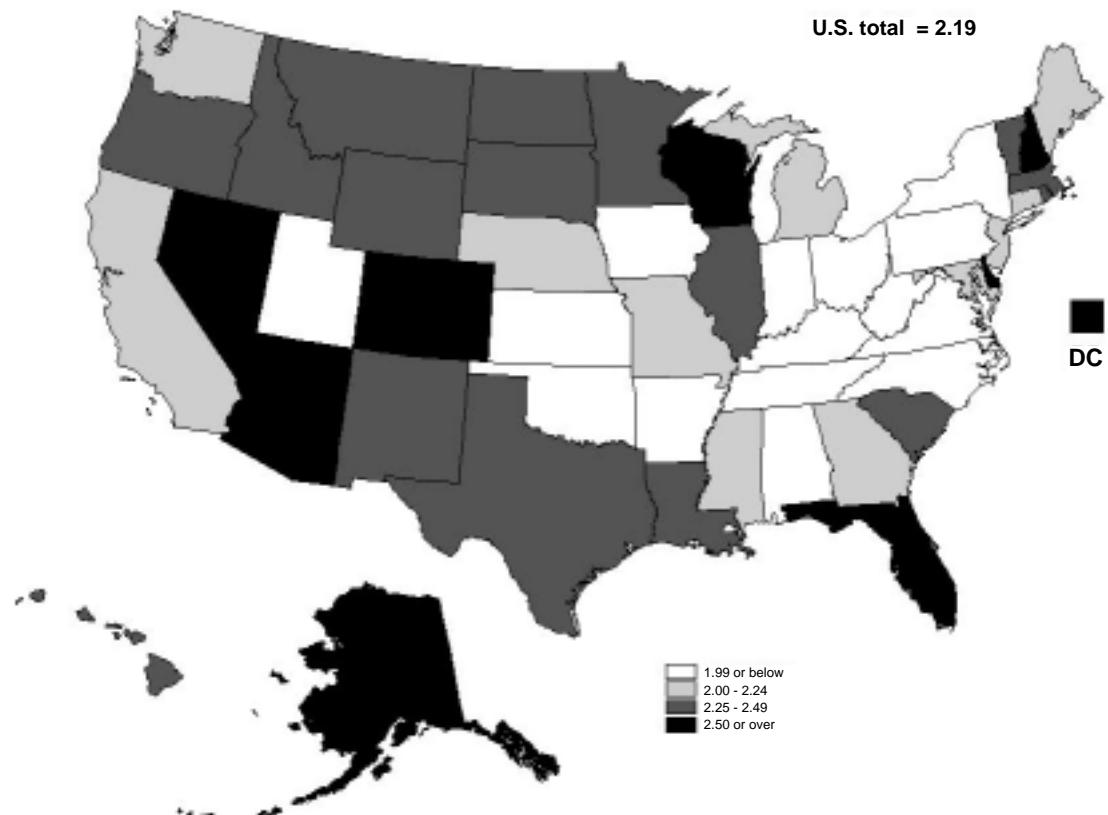
data also are aggregated by census regions and the United States as a whole.

Table 2 ranks the States and the District of Columbia into 10 groups (deciles) based on high-to-low distributions of total per capita consumption of ethanol. Placement in the first decile indicates the State ranks among the top 10 percent of States in total per capita consumption of ethanol, placement in the second decile indicates the top 20 percent, and so on. In 1998 the States in the highest decile on total per capita consumption (in gallons ethanol) were New Hampshire (4.03), Nevada (3.90), the District of Columbia (3.81), Delaware (2.87), and Alaska (2.77). Between 1997 and 1998 per capita consumption of all alcoholic beverages combined in the top decile States decreased, except Alaska which showed an increase. States in the lowest decile (and their total per capita consumption of ethanol) in 1998 were Arkansas (1.79), Kentucky (1.74), Kansas (1.80), Oklahoma (1.71), West Virginia (1.63), and Utah (1.25). Between

1997 and 1998 every State in the lowest decile showed an increase in overall per capita ethanol consumption, except Utah, which showed a decrease.

Figure 4 shows total per capita consumption of ethanol in 1998 for each State and the District of Columbia. Eight States (New Hampshire, Nevada, Delaware, Arizona, Colorado, Wisconsin, Florida, and Alaska) and the District of Columbia had per capita consumption levels of 2.50 or more gallons ethanol (the highest category in figure 4). New Hampshire, Nevada, and the District of Columbia had per capita ethanol consumption estimates of 3.00 gallons ethanol or higher. By comparison, in 1980 a total of 18 States and the District of Columbia had combined per capita ethanol consumption levels of 3.00 gallons ethanol or higher. Fourteen States (Alabama, Arkansas, Indiana, Iowa, Kansas, Kentucky, New York, North Carolina, Oklahoma, Pennsylvania, Tennessee, Utah, Virginia, and West Virginia) had combined per

Figure 4. Total per capita consumption in gallons of ethanol by State, United States, 1998.



capita consumption levels at or below 1.97 gallons ethanol in 1998. In 1980 only eight States had per capita consumption levels at or below 2.00 gallons ethanol.

Trends in Apparent Consumption, 1977–98

Table 3 presents State per capita consumption data by beverage type and for all alcoholic beverages combined from 1977 to 1998. In addition, table 3 presents aggregations of the per capita consumption data for census regions and the United States as a whole. Decile rankings for the States have been computed for total per capita ethanol consumption only. Users of this report should interpret decile changes with considerable caution and with reference to the actual amounts of consumption per capita. Very small increases, decreases, or even no change in the per capita consumption values can result in changes in the decile rankings of the States for different years.

Between 1997 and 1998, total per capita consumption from all alcoholic beverages combined increased in 36 States and decreased in 14 States and the District of Columbia. For per capita beer consumption, 34 States had increases and 16 States and the District of Columbia had decreases. For wine consumption, 32 States and the District of Columbia had increases and 18 States had decreases. For spirits consumption, 24 States had increases, and 26 States and the District of Columbia had decreases.

Figure 5 presents a map of percentage increases or decreases between 1977 and 1998 in overall per capita consumption among the individual States and the District of Columbia. Between 1977 and 1998, the 50 States and the District of Columbia experienced a 17.0 percent decrease in overall per capita ethanol consumption. Over the 22-year study period, only two States (Arkansas and Mississippi) showed an increase in total per capita ethanol consumption. A total of 35 States had a

Figure 5. Percent change in total per capita ethanol consumption by State, United States, 1977–98.

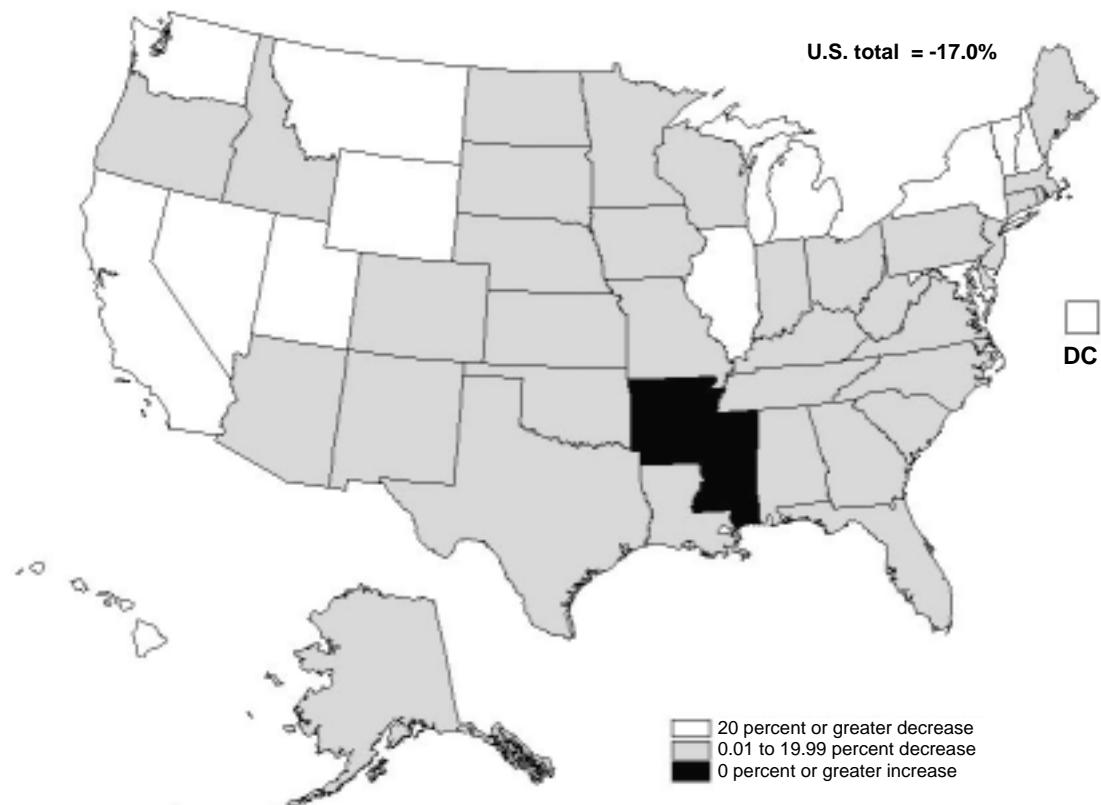
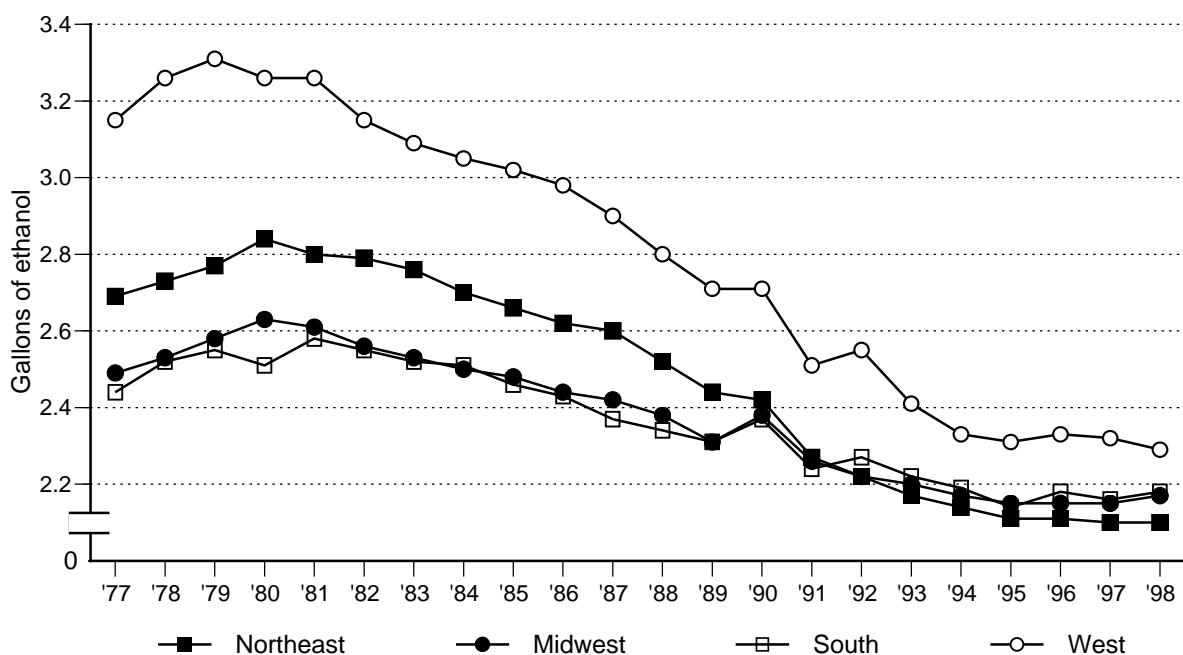


Figure 6. Total per capita ethanol consumption by region, United States, 1977–98.



decrease of under 20 percent, and 13 States and the District of Columbia had a decrease of 20 percent or greater.

REGIONAL DATA

Several AEDS analyses have been conducted over the years using U.S. Census Bureau regions¹ as the unit of analysis. One advantage in using census regions is that the per capita consumption data can be compared with other U.S. Census Bureau data and with national surveys (e.g., drinking and food frequency surveys) grouped by region.

Regional Trends in Consumption for All Beverages, 1977–98

Figure 6 presents regional trends in apparent per capita ethanol consumption for all

alcoholic beverages combined over the years 1977 to 1998. As shown in the figure, overall per capita consumption tends to be highest in the West, with relatively few differences among the Northeast, the Midwest, and the South since 1990. In the West, the decline in per capita consumption of all alcoholic beverages combined since 1981 was precipitous through 1989, evidenced no change in 1990, decreased in 1991, increased in 1992, decreased in 1993 through 1995, increased in 1996, and decreased again in 1997 and 1998. Compared to the West, changes in per capita consumption in the Northeast, Midwest, and South over the years have tended to be more gradual. Between 1997 and 1998 overall per capita consumption increases were found in the South (0.3 percent), and Midwest (1.2

¹ The following are the census regions and the States they comprise: *Northeast*—Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; *Midwest*—Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; *South*—Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; *West*—Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

percent) regions, while overall per capita consumption decreased in the Northeast (0.2 percent) and West (1.2 percent) regions.

Regional Trends in Consumption for Individual Beverage Types, 1977–98

National trends in consumption of all alcoholic beverages combined sometimes can mask regional differences in the consumption of specific beverage types. Figure 7 presents apparent per capita beer consumption trends in each of the four census regions for 1977 to 1998. Beer consumption tends to be highest in the West, followed by the Midwest, South, and Northeast until 1990, when the relative positions of the Midwest, South, and West changed. Between 1997 and 1998 an increase in per capita consumption of beer was found in the Northeast, South, and Midwest regions, and a decrease was found in the West region.

As shown in figure 8, patterns of wine consumption since 1977 also differ among the regions. The West again shows the highest levels of per capita wine consumption, followed by the Northeast. Both California in

the West and New York in the Northeast are notable wine production States. The Midwest and South tend to have the lowest levels of per capita wine consumption, with little difference between the two. Between 1997 and 1998 per capita wine consumption increased in the Northeast and South and decreased in the Midwest and West. Because the previously used data series (*U.S. Wine Stats, 1998*, published by Steve Barsby and Associates) is no longer available, it is difficult to determine whether some changes between 1997 and 1998 might reflect different data collection or analytic procedures. The data source, *U.S. Wine Demographics Report* (Motto, Kryla, and Fisher 2000) used in the present report shows relatively large per capita wine consumption for Idaho (0.60), Alaska (0.39), and Wyoming (0.21) in 1998. Using another industry source (*Adams Wine Handbook 1999*, published by Adams Business Media) would result in 1998 per capita wine consumption for Idaho, Alaska, and Wyoming of 0.34, 0.37, and 0.18 gallons ethanol, respectively. The reasons for the large discrepancy for Idaho are not clear

Figure 7. Per capita ethanol consumption from beer by region, United States, 1977–98.

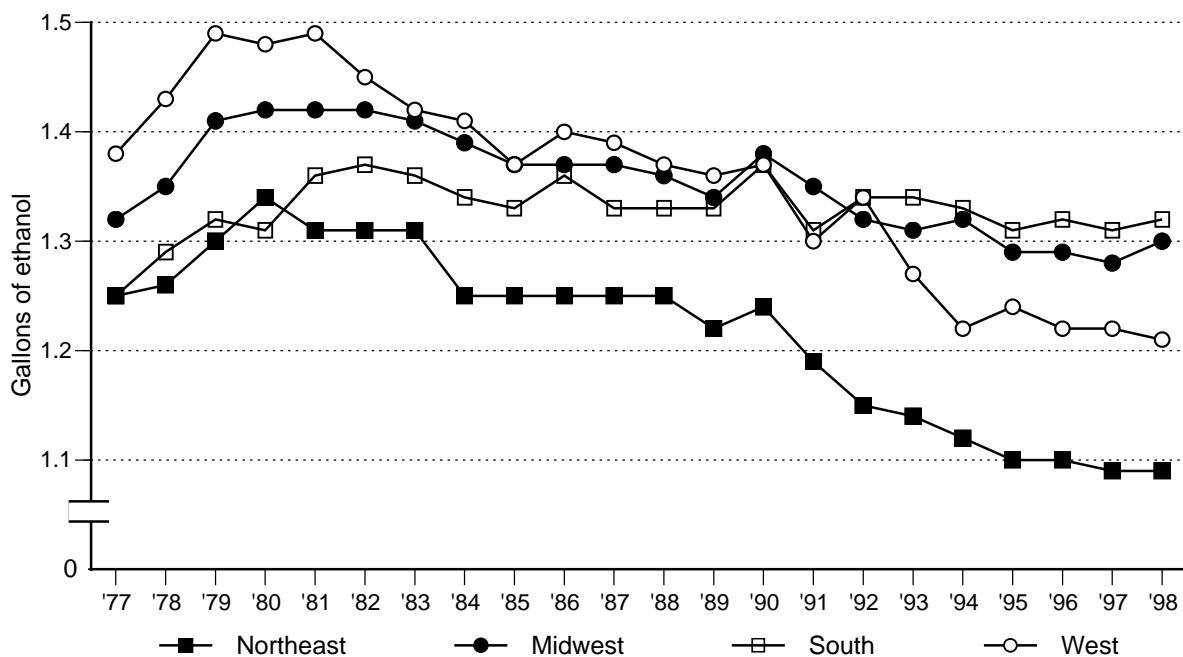


Figure 8. Per capita ethanol consumption from wine by region, United States, 1977–98.

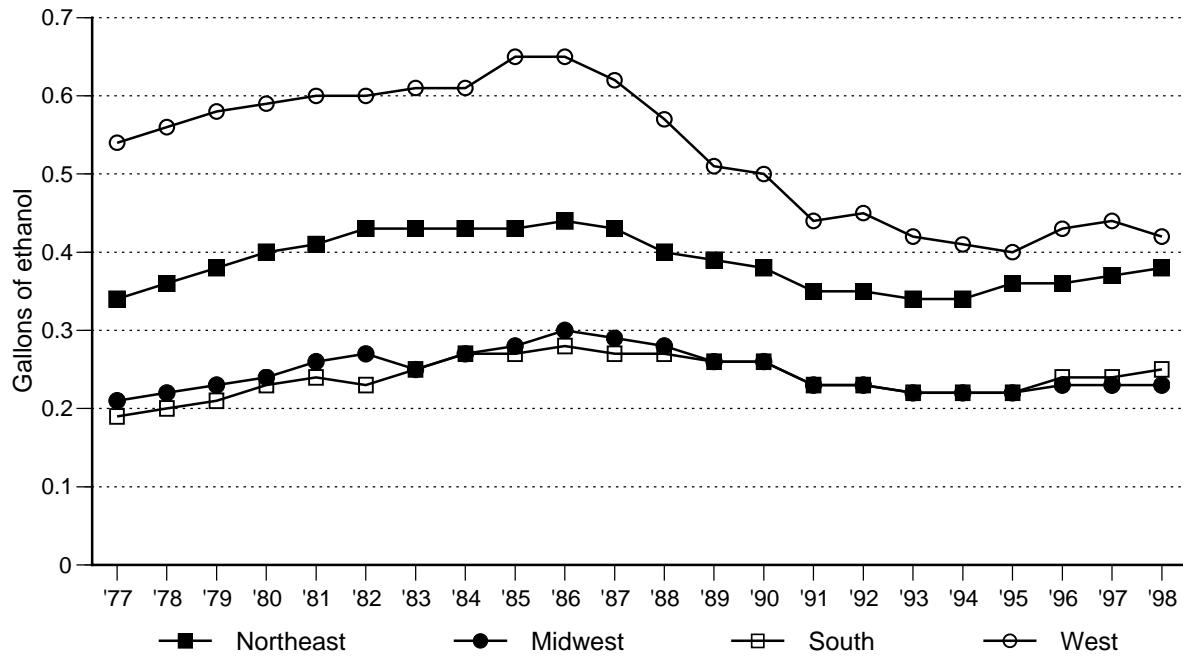
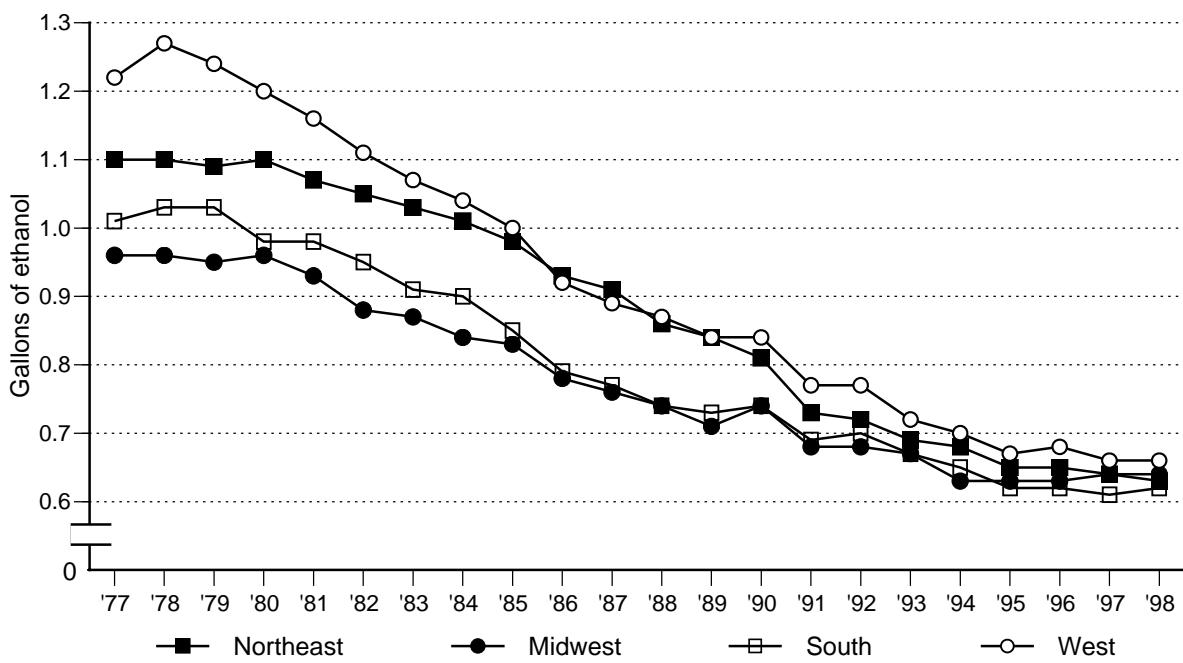


Figure 9. Per capita ethanol consumption from spirits by region, United States, 1977–98.



yet and will be looked into for the 2001 report.

The largest changes in per capita consumption generally have occurred in the consumption of spirits (see figure 9 on the previous page), both regionally and nationally. The regions have followed similar patterns of decline in spirits consumption since 1979; differences are primarily in the magnitude of the change. The tendency of the regions to become more similar in terms of per capita ethanol consumption from spirits over the years is notable. Between 1997 and 1998 per capita spirits consumption decreased in the Northeast, remained the same in the West, and increased slightly in the South and Midwest regions.

DISCUSSION

United States per capita consumption of all alcoholic beverages combined in 1998 was 2.19 gallons ethanol, only a slight increase from the 1997 figure of 2.18 gallons ethanol, the lowest since 1963. By census region between 1997 and 1998, overall per capita consumption of alcohol decreased in the Northeast region by 0.2 percent and in the West region by 1.2 percent, and increased in the South and Midwest regions (0.3, and 1.2 percent, respectively). According to industry predictions, the 1998 increase in overall per capita consumption of alcohol was not unexpected because of the ongoing increase in the number of persons ages 21 and older (M. Shanken Communications 1998a, 1998b, 1998c).

The national increase in per capita alcohol consumption in 1998 was generally characteristic of individual States. In 1998, per capita consumption of all alcoholic beverages decreased in 14 States and the District of Columbia, and per capita consumption of beer decreased in 16 States and the District of Columbia. However, per capita wine consumption increased in 32 States and the District of Columbia. While the magnitudes of the changes in per capita consumption between

1997 and 1998 were generally not dramatic, the number of directional changes (increases or decreases) in overall per capita consumption was noteworthy.

Market analysts suggest that the 1998 increases in alcohol consumption may continue in the coming years (M. Shanken Communications 1998a, 1998b, 1998c). This is likely to affect one of the alcohol objectives in *Healthy People 2000: National Health Promotion and Disease Prevention Objectives* (U.S. Department of Health and Human Services 1991).

With another annual increase in overall per capita consumption since 1990, it seems unlikely that the national health objective to reduce per capita alcohol consumption to an annual average of no more than 2 gallons ethanol per person by the year 2000 will be achieved. Overall per capita alcohol consumption will need to decrease by 8.6 percent (i.e., an average of 4.3 percent annually) to meet the alcohol consumption objective in *Healthy People 2000*.

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Table 1. Apparent per capita ethanol consumption, United States, 1850–1998. [Gallons of ethanol, based on population age 15 and older prior to 1970 and on population age 14 and older thereafter]

Year	Beer	Wine	Spirits	All beverages
1998.....	1.25	0.31	0.63	2.19
1997.....	1.24	0.31	0.63	2.18
1996.....	1.25	0.30	0.64	2.19
1995.....	1.25	0.29	0.64	2.17
1994.....	1.26	0.29	0.66	2.21
1993.....	1.28	0.29	0.68	2.25
1992.....	1.29	0.30	0.71	2.31
1991.....	1.29	0.30	0.71	2.30
1990.....	1.34	0.33	0.78	2.45
1989.....	1.31	0.34	0.77	2.42
1988.....	1.33	0.36	0.79	2.48
1987.....	1.34	0.38	0.82	2.54
1986.....	1.34	0.39	0.84	2.58
1985.....	1.33	0.38	0.90	2.62
1984.....	1.35	0.37	0.94	2.65
1983.....	1.37	0.36	0.96	2.69
1982.....	1.38	0.36	0.98	2.72
1981.....	1.39	0.35	1.02	2.76
1980.....	1.38	0.34	1.04	2.76
1979.....	1.37	0.32	1.06	2.75
1978.....	1.33	0.31	1.07	2.71
1977.....	1.29	0.29	1.06	2.64
1976.....	1.27	0.32	1.10	2.69
1975.....	1.26	0.32	1.11	2.69
1974.....	1.25	0.31	1.11	2.67
1973.....	1.20	0.31	1.10	2.62
1972.....	1.17	0.30	1.09	2.56
1971.....	1.15	0.31	1.12	2.59
1970.....	1.14	0.27	1.11	2.52
1969.....	1.12	0.26	1.13	2.51
1968.....	1.09	0.26	1.10	2.45
1967.....	1.07	0.25	1.05	2.37
1966.....	1.06	0.24	1.02	2.32
1965.....	1.04	0.24	0.99	2.27
1964.....	1.04	0.24	0.95	2.23
1963.....	1.01	0.23	0.91	2.15
1962.....	0.99	0.22	0.90	2.11
1961.....	0.97	0.23	0.86	2.06
1960.....	0.99	0.22	0.86	2.07
1959.....	1.00	0.22	0.84	2.06
1958.....	0.96	0.22	0.80	1.98
1957.....	0.97	0.22	0.80	1.99
1956.....	1.00	0.22	0.81	2.03
1955.....	1.01	0.22	0.77	2.00
1954.....	1.01	0.21	0.74	1.96
1953.....	1.04	0.20	0.77	2.01
1952.....	1.04	0.21	0.73	1.98
1951.....	1.03	0.20	0.78	2.01
1950.....	1.04	0.23	0.77	2.04

Table 1. Apparent per capita ethanol consumption, United States, 1850–1998. [Gallons of ethanol, based on population age 15 and older prior to 1970 and on population age 14 and older thereafter] (Continued)

Year	Beer	Wine	Spirits	All beverages
1949.....	1.06	0.22	0.70	1.98
1948.....	1.07	0.20	0.70	1.97
1947.....	1.11	0.16	0.76	2.03
1946.....	1.07	0.24	0.99	2.30
1945.....	1.17	0.20	0.88	2.25
1944.....	1.13	0.18	0.76	2.07
1943.....	1.00	0.17	0.66	1.83
1942.....	0.90	0.22	0.85	1.97
1941.....	0.81	0.18	0.71	1.70
1940.....	0.73	0.16	0.67	1.56
1939.....	0.75	0.14	0.62	1.51
1938.....	0.75	0.13	0.59	1.47
1937.....	0.82	0.13	0.64	1.59
1936.....	0.79	0.12	0.59	1.50
1935.....	0.68	0.09	0.43	1.20
1934.....	0.61	0.07	0.29	0.97
(Prohibition)				
1916–1919.....	1.08	0.12	0.76	1.96
1911–1915.....	1.48	0.14	0.94	2.56
1906–1910.....	1.47	0.17	0.96	2.60
1901–1905.....	1.31	0.13	0.95	2.39
1896–1900.....	1.19	0.10	0.77	2.06
1891–1895.....	1.17	0.11	0.95	2.23
1881–1890.....	0.90	0.14	0.95	1.99
1871–1880.....	0.56	0.14	1.02	1.72
1870.....	0.44	0.10	1.53	2.07
1860.....	0.27	0.10	2.16	2.53
1850.....	0.14	0.08	1.88	2.10

Sources: Nephew, T.M.; Williams, G.D.; Stinson, F.S.; Nguyen, K.; and Dufour, M.C. *Surveillance Report #51: Apparent Per Capita Consumption: National, State, and Regional Trends, 1977–97*. Rockville, MD: National Institute on Alcohol Abuse and Alcoholism, Division of Biometry and Epidemiology, Alcohol Epidemiologic Data System, December 1999.

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Table 2. Apparent alcohol consumption for States, census regions, and the United States, 1998. [Volume and ethanol in thousands of gallons, per capita consumption in gallons, based on population age 14 and older]

State or other geographic area	Beer			Wine			Spirits			All beverages		
	Volume	Ethanol	Per capita	Volume	Ethanol	Per capita	Volume	Ethanol	Per capita	Ethanol	Per capita	U.S. decile
Alabama.....	92,082	4,144	1.18	3,943	509	0.14	4,370	1,796	0.51	6,448	1.83	9
Alaska.....	14,315	644	1.39	1,412	182	0.39	1,122	461	0.99	1,288	2.77	1
Arizona.....	124,001	5,580	1.53	9,520	1,228	0.34	6,393	2,628	0.72	9,436	2.59	2
Arkansas.....	51,525	2,319	1.14	1,899	245	0.12	2,622	1,078	0.53	3,641	1.79	10
California.....	630,458	28,371	1.11	90,647	11,693	0.46	38,176	15,691	0.61	55,755	2.18	7
Colorado	97,093	4,369	1.38	9,544	1,231	0.39	6,664	2,739	0.87	8,339	2.64	2
Connecticut.....	58,076	2,613	0.99	10,039	1,295	0.49	4,875	2,004	0.76	5,912	2.24	5
Delaware.....	18,602	837	1.39	2,253	291	0.48	1,473	605	1.00	1,733	2.87	1
Dist. of Columb.	14,401	648	1.47	2,685	346	0.79	1,660	682	1.55	1,676	3.81	1
Florida.....	366,863	16,509	1.36	37,218	4,801	0.40	24,432	10,041	0.83	31,351	2.58	2
Georgia	167,681	7,546	1.25	11,470	1,480	0.24	10,598	4,356	0.72	13,381	2.21	6
Hawaii	28,745	1,294	1.35	2,797	361	0.38	1,280	526	0.55	2,180	2.28	5
Idaho.....	25,096	1,129	1.17	4,479	578	0.60	1,208	497	0.51	2,204	2.28	5
Illinois.....	276,800	12,456	1.30	25,612	3,304	0.34	15,134	6,220	0.65	21,980	2.29	4
Indiana.....	119,242	5,366	1.13	7,060	911	0.19	7,150	2,939	0.62	9,215	1.94	9
Iowa	68,458	3,081	1.33	2,228	287	0.12	2,649	1,089	0.47	4,457	1.92	9
Kansas.....	51,428	2,314	1.10	2,503	323	0.15	2,794	1,148	0.54	3,785	1.80	10
Kentucky.....	76,272	3,432	1.08	3,213	414	0.13	4,143	1,703	0.53	5,549	1.74	10
Louisiana.....	116,816	5,257	1.52	6,184	798	0.23	5,980	2,458	0.71	8,512	2.47	2
Maine	26,046	1,172	1.14	2,718	351	0.34	1,701	699	0.68	2,222	2.16	7
Maryland	96,852	4,358	1.06	9,584	1,236	0.30	7,393	3,038	0.74	8,633	2.10	8
Massachusetts.....	129,459	5,826	1.17	19,556	2,523	0.50	9,313	3,828	0.77	12,176	2.44	3
Michigan.....	208,797	9,396	1.20	13,660	1,762	0.22	13,210	5,429	0.69	16,587	2.11	8
Minnesota	108,143	4,866	1.29	7,990	1,031	0.27	7,755	3,187	0.85	9,085	2.41	3
Mississippi.....	68,686	3,091	1.42	1,546	199	0.09	3,203	1,316	0.61	4,607	2.12	7
Missouri.....	130,325	5,865	1.34	7,809	1,007	0.23	6,763	2,780	0.64	9,652	2.21	6
Montana.....	24,093	1,084	1.52	1,579	204	0.29	1,133	466	0.65	1,753	2.46	2
Nebraska.....	41,857	1,884	1.42	1,926	248	0.19	1,923	790	0.60	2,922	2.21	6
Nevada.....	59,159	2,662	1.94	6,703	865	0.63	4,444	1,826	1.33	5,353	3.90	1
New Hampshire	36,896	1,660	1.74	4,043	522	0.55	4,061	1,669	1.75	3,851	4.03	1

Table 2. Apparent alcohol consumption for States, census regions, and the United States, 1998. [Volume and ethanol in thousands of gallons, per capita consumption in gallons, based on population age 14 and older] (Continued)

State or other geographic area	Beer			Wine			Spirits			All beverages		
	Volume	Ethanol	Per capita	Volume	Ethanol	Per capita	Volume	Ethanol	Per capita	Ethanol	Per capita	U.S. decile
New Jersey	144,840	6,518	1.00	23,567	3,040	0.47	11,149	4,582	0.70	14,140	2.17	7
New Mexico	45,918	2,066	1.53	2,532	327	0.24	1,964	807	0.60	3,200	2.37	4
New York	315,657	14,205	0.97	42,856	5,528	0.38	20,459	8,408	0.57	28,142	1.92	9
North Carolina.	158,927	7,152	1.18	11,324	1,461	0.24	7,759	3,189	0.53	11,802	1.95	8
North Dakota...	17,349	781	1.51	520	67	0.13	977	401	0.78	1,249	2.42	3
Ohio	265,079	11,929	1.32	13,022	1,680	0.19	10,442	4,292	0.47	17,900	1.98	8
Oklahoma.....	67,617	3,043	1.14	2,610	337	0.13	2,869	1,179	0.44	4,559	1.71	10
Oregon	72,528	3,264	1.23	9,052	1,168	0.44	4,047	1,663	0.63	6,095	2.30	4
Pennsylvania...	269,034	12,107	1.23	14,946	1,928	0.20	11,036	4,536	0.46	18,570	1.89	9
Rhode Island...	21,330	960	1.20	3,066	396	0.49	1,292	531	0.66	1,886	2.35	4
South Carolina	99,267	4,467	1.44	5,008	646	0.21	5,530	2,273	0.73	7,386	2.38	3
South Dakota..	18,655	839	1.45	613	79	0.14	984	405	0.70	1,323	2.28	5
Tennessee	119,222	5,365	1.22	5,279	681	0.15	5,432	2,232	0.51	8,278	1.88	9
Texas	531,579	23,921	1.56	27,455	3,542	0.23	18,879	7,759	0.51	35,222	2.30	4
Utah	26,418	1,189	0.76	1,224	158	0.10	1,472	605	0.39	1,952	1.25	10
Vermont	13,515	608	1.26	1,786	230	0.48	736	302	0.62	1,141	2.36	4
Virginia.....	145,634	6,554	1.19	12,382	1,597	0.29	6,428	2,642	0.48	10,793	1.96	8
Washington....	114,627	5,158	1.13	15,398	1,986	0.44	7,075	2,908	0.64	10,053	2.21	6
West Virginia...	39,246	1,766	1.17	1,111	143	0.10	1,333	548	0.36	2,457	1.63	10
Wisconsin.....	152,275	6,852	1.63	8,481	1,094	0.26	8,141	3,346	0.80	11,292	2.69	2
Wyoming	12,063	543	1.41	619	80	0.21	775	319	0.83	941	2.44	3
<i>Regions</i>												
Northeast	1,014,853	45,668	1.09	122,577	15,812	0.38	64,622	26560	0.63	88,041	2.10	
Midwest.....	1,458,408	65,628	1.30	91,424	11,794	0.23	77,922	32,026	0.64	109,448	2.17	
South.....	2,231,272	100,407	1.32	145,165	18,726	0.25	114,102	46,896	0.62	166,029	2.18	
West.....	1,274,514	57,353	1.21	155,506	20,060	0.42	75,754	31,135	0.66	108,548	2.29	
U.S. total	5,979,047	269,057	1.25	514,672	66,393	0.31	332,400	136,617	0.63	472,066	2.19	

• Decile values apply only to State-level data. Numbers may not add due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older]

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Alabama					
1998.....	1.18	0.14	0.51	1.83	9
1997.....	1.14	0.15	0.52	1.81	9
1996.....	1.17	0.15	0.54	1.86	9
1995.....	1.15	0.15	0.53	1.82	9
1994.....	1.17	0.17	0.54	1.88	9
1993.....	1.15	0.17	0.56	1.88	9
1992.....	1.02	0.19	0.59	1.80	10
1991.....	1.01	0.17	0.59	1.77	10
1990.....	1.13	0.18	0.62	1.93	9
1989.....	1.10	0.17	0.60	1.87	9
1988.....	1.10	0.18	0.61	1.89	9
1987.....	1.10	0.18	0.61	1.89	9
1986.....	1.09	0.18	0.64	1.90	9
1985.....	1.06	0.17	0.67	1.90	9
1984.....	1.02	0.19	0.69	1.90	10
1983.....	1.01	0.17	0.71	1.89	10
1982.....	1.00	0.18	0.72	1.89	10
1981.....	1.00	0.19	0.73	1.92	10
1980.....	0.96	0.16	0.74	1.86	10
1979.....	0.98	0.12	0.84	1.94	10
1978.....	0.98	0.12	0.88	1.97	9
1977.....	0.99	0.13	0.84	1.96	9
Alaska					
1998.....	1.39	0.39	0.99	2.77	1
1997.....	1.32	0.36	0.89	2.58	2
1996.....	1.33	0.34	0.96	2.63	2
1995.....	1.46	0.39	1.03	2.88	1
1994.....	1.53	0.40	1.10	3.03	1
1993.....	1.32	0.32	0.93	2.56	2
1992.....	1.54	0.42	1.08	3.04	1
1991.....	1.54	0.43	1.14	3.12	1
1990.....	1.62	0.46	1.25	3.33	1
1989.....	1.57	0.46	1.24	3.27	1
1988.....	1.60	0.49	1.23	3.32	1
1987.....	1.64	0.54	1.29	3.46	1
1986.....	1.68	0.56	1.27	3.51	1
1985.....	1.68	0.58	1.53	3.78	1
1984.....	1.73	0.58	1.56	3.86	1
1983.....	1.76	0.61	1.70	4.06	1
1982.....	1.75	0.56	1.74	4.05	1
1981.....	1.71	0.57	1.82	4.10	1
1980.....	1.55	0.50	1.70	3.76	1
1979.....	1.50	0.47	1.65	3.62	1
1978.....	1.39	0.45	1.68	3.52	2
1977.....	1.19	0.42	1.70	3.31	2
Arizona					
1998.....	1.53	0.34	0.72	2.59	2
1997.....	1.54	0.33	0.72	2.59	2
1996.....	1.57	0.34	0.75	2.66	1
1995.....	1.51	0.29	0.70	2.51	3
1994.....	1.61	0.31	0.74	2.65	2
1993.....	1.65	0.29	0.80	2.73	2
1992.....	1.62	0.32	0.83	2.76	2
1991.....	1.60	0.35	0.80	2.75	2
1990.....	1.59	0.37	0.80	2.77	3
1989.....	1.68	0.36	0.85	2.89	2
1988.....	1.64	0.42	0.88	2.94	2
1987.....	1.67	0.46	0.86	2.99	2
1986.....	1.77	0.46	0.91	3.14	2
1985.....	1.67	0.46	1.00	3.12	2
1984.....	1.57	0.45	1.06	3.08	3
1983.....	1.62	0.44	1.00	3.06	3
1982.....	1.74	0.40	0.99	3.13	3
1981.....	1.78	0.42	1.01	3.22	3
1980.....	1.69	0.36	0.98	3.03	4
1979.....	1.86	0.39	1.17	3.42	2
1978.....	1.77	0.37	1.10	3.25	2
1977.....	1.70	0.34	1.05	3.10	3

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Arkansas					
1998.....	1.14	0.12	0.53	1.79	10
1997.....	1.11	0.12	0.53	1.77	10
1996.....	1.13	0.12	0.54	1.79	9
1995.....	1.09	0.12	0.52	1.73	10
1994.....	1.08	0.13	0.47	1.68	10
1993.....	1.11	0.12	0.59	1.82	9
1992.....	1.13	0.13	0.66	1.92	9
1991.....	1.13	0.11	0.58	1.82	9
1990.....	1.13	0.13	0.61	1.87	9
1989.....	1.08	0.13	0.57	1.78	9
1988.....	1.07	0.14	0.53	1.74	10
1987.....	1.08	0.11	0.53	1.71	10
1986.....	1.06	0.09	0.48	1.63	10
1985.....	1.03	0.13	0.58	1.75	10
1984.....	1.02	0.12	0.64	1.78	10
1983.....	1.03	0.13	0.63	1.78	10
1982.....	1.03	0.12	0.63	1.78	10
1981.....	1.06	0.12	0.68	1.87	10
1980.....	1.00	0.12	0.69	1.81	10
1979.....	0.93	0.10	0.57	1.60	10
1978.....	0.97	0.11	0.73	1.82	10
1977.....	0.92	0.10	0.63	1.65	10
California					
1998.....	1.11	0.46	0.61	2.18	7
1997.....	1.13	0.50	0.62	2.25	5
1996.....	1.11	0.49	0.64	2.24	5
1995.....	1.15	0.45	0.64	2.23	6
1994.....	1.09	0.47	0.68	2.24	6
1993.....	1.18	0.48	0.69	2.35	4
1992.....	1.28	0.51	0.76	2.55	3
1991.....	1.22	0.49	0.75	2.46	4
1990.....	1.32	0.59	0.87	2.78	2
1989.....	1.31	0.61	0.87	2.79	2
1988.....	1.34	0.68	0.89	2.90	2
1987.....	1.36	0.74	0.93	3.03	2
1986.....	1.36	0.79	0.96	3.11	2
1985.....	1.32	0.78	1.02	3.12	2
1984.....	1.38	0.74	1.07	3.19	2
1983.....	1.37	0.75	1.11	3.23	2
1982.....	1.37	0.72	1.14	3.23	3
1981.....	1.43	0.72	1.21	3.36	2
1980.....	1.42	0.71	1.25	3.38	2
1979.....	1.42	0.70	1.28	3.40	2
1978.....	1.36	0.68	1.32	3.36	2
1977.....	1.31	0.67	1.28	3.25	2
Colorado					
1998.....	1.38	0.39	0.87	2.64	2
1997.....	1.35	0.39	0.84	2.57	2
1996.....	1.40	0.38	0.86	2.65	2
1995.....	1.48	0.35	0.80	2.63	2
1994.....	1.40	0.36	0.86	2.61	2
1993.....	1.42	0.37	0.88	2.67	2
1992.....	1.35	0.36	0.82	2.53	3
1991.....	1.39	0.35	0.87	2.63	3
1990.....	1.35	0.29	0.75	2.39	6
1989.....	1.40	0.37	0.84	2.60	3
1988.....	1.42	0.39	0.91	2.72	3
1987.....	1.43	0.44	0.93	2.80	3
1986.....	1.47	0.46	0.94	2.87	3
1985.....	1.47	0.50	1.18	3.15	2
1984.....	1.51	0.46	1.12	3.09	2
1983.....	1.57	0.46	1.12	3.15	3
1982.....	1.64	0.46	1.18	3.28	2
1981.....	1.63	0.44	1.26	3.33	2
1980.....	1.57	0.47	1.31	3.35	2
1979.....	1.68	0.47	1.37	3.52	2
1978.....	1.64	0.47	1.43	3.54	1
1977.....	1.43	0.36	1.22	3.01	3

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Connecticut					
1998.....	0.99	0.49	0.76	2.24	6
1997.....	0.97	0.49	0.75	2.22	5
1996.....	0.96	0.47	0.73	2.17	6
1995.....	0.98	0.49	0.78	2.26	5
1994.....	1.00	0.44	0.79	2.22	6
1993.....	0.97	0.44	0.80	2.21	6
1992.....	1.02	0.45	0.84	2.31	6
1991.....	1.04	0.43	0.84	2.30	6
1990.....	1.09	0.46	0.92	2.46	6
1989.....	1.09	0.47	0.98	2.54	4
1988.....	1.14	0.51	1.07	2.71	3
1987.....	1.15	0.52	1.12	2.79	3
1986.....	1.13	0.51	1.15	2.79	3
1985.....	1.14	0.50	1.20	2.84	3
1984.....	1.10	0.50	1.20	2.80	4
1983.....	1.10	0.49	1.23	2.82	4
1982.....	1.04	0.49	1.20	2.73	6
1981.....	1.05	0.44	1.18	2.67	6
1980.....	1.06	0.43	1.21	2.70	6
1979.....	1.13	0.40	1.20	2.72	5
1978.....	1.07	0.38	1.20	2.65	6
1977.....	1.05	0.35	1.21	2.61	6
Delaware					
1998.....	1.39	0.48	1.00	2.87	1
1997.....	1.40	0.47	1.01	2.88	1
1996.....	1.37	0.44	0.94	2.74	1
1995.....	1.32	0.40	0.94	2.66	2
1994.....	1.45	0.38	0.96	2.79	1
1993.....	1.47	0.36	0.95	2.78	1
1992.....	1.41	0.36	0.97	2.75	2
1991.....	1.40	0.35	0.96	2.71	2
1990.....	1.45	0.37	1.14	2.97	2
1989.....	1.40	0.38	1.13	2.91	2
1988.....	1.44	0.40	1.19	3.03	1
1987.....	1.44	0.42	1.22	3.08	2
1986.....	1.45	0.44	1.23	3.13	2
1985.....	1.46	0.41	1.30	3.16	2
1984.....	1.51	0.38	1.28	3.17	2
1983.....	1.53	0.35	1.34	3.22	2
1982.....	1.53	0.34	1.36	3.23	3
1981.....	1.51	0.32	1.39	3.23	3
1980.....	1.45	0.29	1.38	3.12	3
1979.....	1.38	0.27	1.34	2.99	4
1978.....	1.33	0.25	1.33	2.91	4
1977.....	1.32	0.24	1.35	2.91	4
District of Columbia					
1998.....	1.47	0.79	1.55	3.81	1
1997.....	1.50	0.79	1.72	4.01	1
1996.....	1.49	0.77	1.54	3.80	1
1995.....	1.56	0.74	1.58	3.89	1
1994.....	1.56	0.76	1.57	3.89	1
1993.....	1.56	0.75	1.58	3.89	1
1992.....	1.64	0.72	1.77	4.13	1
1991.....	1.44	0.62	1.87	3.93	1
1990.....	1.42	0.77	1.97	4.16	1
1989.....	1.49	0.88	1.85	4.22	1
1988.....	1.47	0.99	2.02	4.48	1
1987.....	1.48	1.00	2.37	4.85	1
1986.....	1.52	1.04	2.19	4.75	1
1985.....	1.49	1.03	2.42	4.94	1
1984.....	1.56	1.11	2.68	5.34	1
1983.....	1.55	1.08	2.79	5.41	1
1982.....	1.48	1.00	2.91	5.39	1
1981.....	1.50	1.06	2.92	5.49	1
1980.....	1.49	0.99	2.94	5.42	1
1979.....	1.48	0.99	3.03	5.49	1
1978.....	1.43	0.94	3.14	5.51	1
1977.....	1.39	0.89	3.26	5.53	1

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Florida					
1998.....	1.36	0.40	0.83	2.58	2
1997.....	1.39	0.39	0.84	2.62	2
1996.....	1.42	0.38	0.84	2.64	2
1995.....	1.38	0.36	0.84	2.58	2
1994.....	1.44	0.34	0.89	2.66	2
1993.....	1.46	0.33	0.94	2.73	2
1992.....	1.47	0.34	0.97	2.79	1
1991.....	1.44	0.35	0.92	2.71	2
1990.....	1.54	0.39	1.04	2.97	2
1989.....	1.51	0.39	1.00	2.90	2
1988.....	1.51	0.41	1.00	2.92	2
1987.....	1.51	0.42	1.03	2.95	2
1986.....	1.50	0.41	1.05	2.96	2
1985.....	1.47	0.41	1.16	3.04	3
1984.....	1.48	0.40	1.24	3.12	2
1983.....	1.56	0.40	1.23	3.19	2
1982.....	1.56	0.40	1.33	3.29	2
1981.....	1.55	0.39	1.38	3.31	3
1980.....	1.42	0.37	1.43	3.22	3
1979.....	1.47	0.37	1.51	3.34	2
1978.....	1.41	0.34	1.48	3.23	3
1977.....	1.33	0.33	1.47	3.13	2
Georgia					
1998.....	1.25	0.24	0.72	2.21	6
1997.....	1.23	0.25	0.72	2.20	6
1996.....	1.25	0.24	0.72	2.20	6
1995.....	1.22	0.23	0.72	2.16	6
1994.....	1.19	0.21	0.78	2.18	6
1993.....	1.24	0.21	0.78	2.23	6
1992.....	1.23	0.22	0.80	2.24	6
1991.....	1.17	0.22	0.79	2.18	7
1990.....	1.22	0.23	0.87	2.32	7
1989.....	1.18	0.24	0.94	2.37	6
1988.....	1.22	0.26	0.92	2.40	6
1987.....	1.22	0.27	1.00	2.49	6
1986.....	1.22	0.27	0.95	2.43	6
1985.....	1.17	0.25	1.01	2.43	7
1984.....	1.18	0.23	1.06	2.48	7
1983.....	1.14	0.22	1.05	2.42	7
1982.....	1.12	0.21	1.04	2.37	8
1981.....	1.10	0.18	1.09	2.38	8
1980.....	1.07	0.19	1.09	2.35	8
1979.....	1.17	0.19	1.22	2.58	7
1978.....	1.14	0.19	1.26	2.59	7
1977.....	1.08	0.16	1.23	2.47	7
Hawaii					
1998.....	1.35	0.38	0.55	2.29	5
1997.....	1.40	0.38	0.57	2.35	4
1996.....	1.43	0.38	0.59	2.40	4
1995.....	1.43	0.35	0.58	2.36	3
1994.....	1.47	0.38	0.63	2.48	3
1993.....	1.50	0.38	0.65	2.53	2
1992.....	1.55	0.39	0.69	2.63	2
1991.....	1.57	0.40	0.71	2.68	2
1990.....	1.65	0.40	0.80	2.86	2
1989.....	1.54	0.43	0.79	2.76	3
1988.....	1.62	0.45	0.79	2.86	3
1987.....	1.57	0.40	0.76	2.73	4
1986.....	1.60	0.44	0.85	2.88	3
1985.....	1.59	0.41	0.88	2.88	3
1984.....	1.65	0.41	0.91	2.97	3
1983.....	1.87	0.44	1.12	3.43	1
1982.....	1.80	0.48	1.14	3.42	1
1981.....	1.74	0.44	1.16	3.34	2
1980.....	1.65	0.46	1.21	3.31	2
1979.....	1.60	0.44	1.28	3.32	3
1978.....	1.38	0.46	1.30	3.15	3
1977.....	1.61	0.36	1.26	3.23	2

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Idaho					
1998.....	1.17	0.60	0.51	2.28	5
1997.....	1.16	0.36	0.51	2.03	8
1996.....	1.19	0.30	0.51	2.00	8
1995.....	1.16	0.31	0.53	2.00	8
1994.....	1.25	0.36	0.54	2.14	7
1993.....	1.27	0.29	0.56	2.12	7
1992.....	1.33	0.32	0.57	2.22	7
1991.....	1.32	0.32	0.57	2.20	7
1990.....	1.36	0.33	0.59	2.27	7
1989.....	1.23	0.30	0.56	2.09	8
1988.....	1.25	0.36	0.58	2.18	7
1987.....	1.31	0.38	0.58	2.26	7
1986.....	1.34	0.38	0.61	2.33	7
1985.....	1.35	0.36	0.71	2.42	7
1984.....	1.40	0.31	0.72	2.43	7
1983.....	1.44	0.30	0.76	2.51	7
1982.....	1.47	0.31	0.81	2.58	7
1981.....	1.54	0.33	0.83	2.70	6
1980.....	1.53	0.30	0.77	2.60	7
1979.....	1.55	0.27	0.84	2.65	6
1978.....	1.50	0.26	0.80	2.56	7
1977.....	1.50	0.22	0.79	2.52	7
Illinois					
1998.....	1.30	0.34	0.65	2.29	5
1997.....	1.29	0.35	0.67	2.32	5
1996.....	1.30	0.34	0.70	2.35	4
1995.....	1.33	0.34	0.67	2.35	4
1994.....	1.34	0.34	0.70	2.38	4
1993.....	1.34	0.34	0.73	2.41	4
1992.....	1.35	0.35	0.75	2.45	4
1991.....	1.39	0.34	0.76	2.49	4
1990.....	1.44	0.37	0.83	2.63	3
1989.....	1.38	0.35	0.82	2.56	4
1988.....	1.42	0.37	0.85	2.64	4
1987.....	1.41	0.39	0.87	2.66	4
1986.....	1.40	0.39	0.90	2.68	4
1985.....	1.38	0.37	0.98	2.72	5
1984.....	1.40	0.37	1.01	2.77	5
1983.....	1.42	0.35	1.03	2.80	5
1982.....	1.41	0.35	1.06	2.83	5
1981.....	1.43	0.35	1.12	2.91	5
1980.....	1.43	0.33	1.24	3.00	4
1979.....	1.45	0.33	1.17	2.94	4
1978.....	1.38	0.31	1.19	2.88	4
1977.....	1.35	0.30	1.22	2.87	4
Indiana					
1998.....	1.13	0.19	0.62	1.94	8
1997.....	1.14	0.19	0.59	1.92	9
1996.....	1.14	0.20	0.58	1.91	9
1995.....	1.13	0.21	0.59	1.92	8
1994.....	1.16	0.20	0.59	1.95	8
1993.....	1.15	0.19	0.64	1.99	8
1992.....	1.17	0.20	0.59	1.96	9
1991.....	1.22	0.19	0.60	2.01	9
1990.....	1.27	0.20	0.64	2.11	8
1989.....	1.21	0.19	0.63	2.04	8
1988.....	1.23	0.21	0.66	2.10	8
1987.....	1.24	0.22	0.67	2.13	8
1986.....	1.25	0.23	0.67	2.14	8
1985.....	1.25	0.22	0.72	2.19	8
1984.....	1.26	0.21	0.72	2.19	8
1983.....	1.27	0.19	0.73	2.19	8
1982.....	1.29	0.18	0.76	2.23	8
1981.....	1.29	0.18	0.78	2.25	8
1980.....	1.26	0.17	0.77	2.21	8
1979.....	1.23	0.15	0.79	2.18	9
1978.....	1.19	0.16	0.79	2.14	8
1977.....	1.14	0.14	0.77	2.05	9

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Iowa					
1998.....	1.33	0.12	0.47	1.92	9
1997.....	1.30	0.12	0.46	1.88	9
1996.....	1.29	0.13	0.44	1.86	9
1995.....	1.27	0.11	0.44	1.82	9
1994.....	1.31	0.10	0.45	1.86	9
1993.....	1.29	0.11	0.48	1.88	9
1992.....	1.32	0.13	0.46	1.92	9
1991.....	1.33	0.16	0.53	2.01	8
1990.....	1.35	0.18	0.54	2.07	9
1989.....	1.26	0.18	0.50	1.94	9
1988.....	1.28	0.20	0.52	1.99	9
1987.....	1.30	0.21	0.57	2.08	9
1986.....	1.32	0.19	0.53	2.04	9
1985.....	1.31	0.14	0.57	2.02	9
1984.....	1.36	0.12	0.61	2.09	9
1983.....	1.38	0.13	0.64	2.15	8
1982.....	1.39	0.13	0.65	2.17	9
1981.....	1.44	0.13	0.69	2.27	8
1980.....	1.41	0.13	0.71	2.25	8
1979.....	1.40	0.11	0.71	2.22	8
1978.....	1.38	0.11	0.74	2.22	8
1977.....	1.33	0.10	0.74	2.17	8
Kansas					
1998.....	1.10	0.15	0.54	1.80	10
1997.....	1.11	0.14	0.48	1.73	10
1996.....	1.07	0.14	0.50	1.72	10
1995.....	1.07	0.14	0.50	1.71	10
1994.....	1.13	0.13	0.49	1.75	10
1993.....	1.10	0.14	0.52	1.77	10
1992.....	1.10	0.14	0.55	1.79	10
1991.....	1.15	0.14	0.57	1.86	9
1990.....	1.13	0.13	0.53	1.79	10
1989.....	1.10	0.13	0.54	1.77	10
1988.....	1.11	0.21	0.56	1.88	9
1987.....	1.12	0.16	0.56	1.84	9
1986.....	1.12	0.17	0.59	1.88	9
1985.....	1.17	0.15	0.64	1.96	9
1984.....	1.18	0.14	0.63	1.95	9
1983.....	1.20	0.13	0.64	1.96	9
1982.....	1.22	0.13	0.67	2.02	9
1981.....	1.23	0.12	0.70	2.05	9
1980.....	1.23	0.11	0.62	1.96	9
1979.....	1.17	0.11	0.73	2.01	9
1978.....	1.14	0.12	0.64	1.89	10
1977.....	1.13	0.10	0.65	1.88	10
Kentucky					
1998.....	1.08	0.13	0.53	1.74	10
1997.....	1.06	0.13	0.53	1.73	10
1996.....	1.06	0.13	0.54	1.73	10
1995.....	1.06	0.12	0.54	1.73	10
1994.....	1.08	0.11	0.55	1.74	10
1993.....	1.08	0.10	0.56	1.74	10
1992.....	1.04	0.11	0.56	1.72	10
1991.....	1.11	0.11	0.57	1.78	10
1990.....	1.13	0.11	0.60	1.84	10
1989.....	1.08	0.12	0.56	1.76	10
1988.....	1.08	0.12	0.59	1.79	10
1987.....	1.03	0.14	0.59	1.76	10
1986.....	1.09	0.13	0.62	1.84	10
1985.....	1.07	0.13	0.66	1.86	10
1984.....	1.05	0.12	0.68	1.85	10
1983.....	1.13	0.12	0.69	1.94	9
1982.....	1.14	0.12	0.73	1.99	9
1981.....	1.13	0.11	0.75	1.99	9
1980.....	1.08	0.10	0.74	1.91	10
1979.....	1.10	0.09	0.77	1.97	10
1978.....	1.07	0.09	0.77	1.93	10
1977.....	1.19	0.09	0.75	2.03	9

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Louisiana					
1998.....	1.52	0.23	0.71	2.47	2
1997.....	1.52	0.23	0.72	2.46	2
1996.....	1.51	0.22	0.73	2.47	2
1995.....	1.56	0.22	0.74	2.52	3
1994.....	1.46	0.21	0.73	2.41	3
1993.....	1.54	0.22	0.73	2.48	3
1992.....	1.56	0.23	0.74	2.53	3
1991.....	1.52	0.21	0.74	2.47	4
1990.....	1.55	0.23	0.78	2.56	4
1989.....	1.43	0.23	0.72	2.38	6
1988.....	1.44	0.24	0.69	2.37	7
1987.....	1.36	0.24	0.75	2.34	7
1986.....	1.39	0.26	0.78	2.42	7
1985.....	1.35	0.27	0.86	2.49	6
1984.....	1.40	0.29	0.94	2.63	6
1983.....	1.43	0.30	1.02	2.75	5
1982.....	1.49	0.30	1.00	2.78	5
1981.....	1.48	0.27	1.02	2.77	6
1980.....	1.41	0.27	1.04	2.71	6
1979.....	1.36	0.26	1.08	2.70	6
1978.....	1.35	0.25	1.07	2.67	6
1977.....	1.30	0.25	1.03	2.57	6
Maine					
1998.....	1.14	0.34	0.68	2.16	7
1997.....	1.16	0.33	0.71	2.20	6
1996.....	1.17	0.33	0.71	2.21	6
1995.....	1.17	0.26	0.72	2.15	6
1994.....	1.13	0.27	0.77	2.17	7
1993.....	1.15	0.29	0.79	2.22	6
1992.....	1.16	0.29	0.78	2.23	7
1991.....	1.19	0.30	0.77	2.25	6
1990.....	1.22	0.31	0.82	2.35	6
1989.....	1.25	0.34	0.85	2.44	5
1988.....	1.28	0.36	0.91	2.54	5
1987.....	1.26	0.38	0.91	2.55	5
1986.....	1.28	0.36	0.91	2.56	5
1985.....	1.29	0.33	0.94	2.56	6
1984.....	1.25	0.31	1.01	2.57	6
1983.....	1.32	0.29	1.03	2.63	6
1982.....	1.30	0.30	1.02	2.63	6
1981.....	1.24	0.28	1.05	2.57	7
1980.....	1.32	0.29	1.06	2.67	6
1979.....	1.30	0.27	1.08	2.65	6
1978.....	1.31	0.27	1.05	2.62	6
1977.....	1.37	0.23	1.04	2.64	6
Maryland					
1998.....	1.06	0.30	0.74	2.10	8
1997.....	1.05	0.29	0.74	2.08	7
1996.....	1.05	0.29	0.75	2.09	7
1995.....	1.07	0.28	0.75	2.09	7
1994.....	1.09	0.28	0.78	2.15	7
1993.....	1.10	0.28	0.80	2.19	7
1992.....	1.11	0.29	0.86	2.26	6
1991.....	1.15	0.30	0.89	2.34	6
1990.....	1.22	0.33	0.96	2.51	5
1989.....	1.22	0.34	0.98	2.54	4
1988.....	1.26	0.36	1.01	2.62	4
1987.....	1.29	0.38	1.07	2.74	3
1986.....	1.29	0.39	1.08	2.75	4
1985.....	1.31	0.36	1.14	2.81	4
1984.....	1.31	0.36	1.17	2.84	4
1983.....	1.34	0.35	1.20	2.89	4
1982.....	1.27	0.32	1.17	2.77	5
1981.....	1.39	0.34	1.33	3.06	4
1980.....	1.42	0.33	1.35	3.09	4
1979.....	1.43	0.31	1.39	3.14	3
1978.....	1.41	0.31	1.38	3.09	3
1977.....	1.37	0.30	1.39	3.05	3

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Massachusetts					
1998.....	1.17	0.50	0.77	2.44	3
1997.....	1.15	0.50	0.77	2.43	3
1996.....	1.15	0.48	0.78	2.41	3
1995.....	1.14	0.45	0.79	2.37	3
1994.....	1.15	0.45	0.81	2.40	3
1993.....	1.15	0.44	0.80	2.39	4
1992.....	1.13	0.44	0.83	2.40	5
1991.....	1.19	0.43	0.87	2.49	3
1990.....	1.22	0.45	0.97	2.64	3
1989.....	1.26	0.47	1.02	2.75	3
1988.....	1.29	0.50	1.07	2.86	3
1987.....	1.29	0.51	1.12	2.93	3
1986.....	1.31	0.53	1.12	2.96	3
1985.....	1.30	0.51	1.21	3.01	3
1984.....	1.30	0.51	1.24	3.04	3
1983.....	1.36	0.50	1.21	3.07	3
1982.....	1.35	0.49	1.22	3.07	3
1981.....	1.44	0.49	1.24	3.17	3
1980.....	1.47	0.45	1.27	3.19	3
1979.....	1.39	0.42	1.23	3.04	4
1978.....	1.37	0.40	1.25	3.02	4
1977.....	1.34	0.37	1.24	2.95	3
Michigan					
1998.....	1.20	0.22	0.69	2.11	7
1997.....	1.16	0.22	0.66	2.05	7
1996.....	1.22	0.22	0.68	2.12	7
1995.....	1.22	0.21	0.68	2.11	7
1994.....	1.24	0.21	0.68	2.13	7
1993.....	1.27	0.21	0.73	2.20	7
1992.....	1.26	0.22	0.74	2.22	7
1991.....	1.31	0.22	0.75	2.27	6
1990.....	1.34	0.28	0.81	2.42	6
1989.....	1.29	0.30	0.80	2.38	6
1988.....	1.31	0.32	0.84	2.47	6
1987.....	1.32	0.33	0.85	2.50	6
1986.....	1.33	0.33	0.90	2.56	5
1985.....	1.30	0.32	0.95	2.58	6
1984.....	1.32	0.31	0.97	2.60	6
1983.....	1.35	0.28	0.97	2.60	6
1982.....	1.35	0.39	0.98	2.72	6
1981.....	1.34	0.29	1.00	2.63	6
1980.....	1.34	0.28	1.03	2.65	6
1979.....	1.37	0.25	1.03	2.65	6
1978.....	1.43	0.25	1.05	2.74	5
1977.....	1.45	0.24	1.02	2.71	5
Minnesota					
1998.....	1.29	0.27	0.85	2.41	3
1997.....	1.25	0.27	0.85	2.37	3
1996.....	1.27	0.26	0.88	2.41	3
1995.....	1.25	0.26	0.83	2.35	4
1994.....	1.28	0.25	0.84	2.38	4
1993.....	1.25	0.25	0.85	2.35	5
1992.....	1.26	0.25	0.86	2.37	5
1991.....	1.30	0.24	0.82	2.35	6
1990.....	1.33	0.27	0.96	2.56	5
1989.....	1.28	0.27	0.88	2.43	5
1988.....	1.30	0.30	0.89	2.49	5
1987.....	1.31	0.32	0.94	2.56	5
1986.....	1.30	0.33	0.92	2.56	6
1985.....	1.31	0.31	1.06	2.68	5
1984.....	1.34	0.28	1.07	2.68	5
1983.....	1.37	0.27	1.10	2.74	6
1982.....	1.36	0.27	1.11	2.75	6
1981.....	1.39	0.27	1.18	2.83	5
1980.....	1.40	0.26	1.20	2.85	5
1979.....	1.35	0.24	1.16	2.75	5
1978.....	1.31	0.23	1.15	2.69	5
1977.....	1.30	0.20	1.15	2.65	5

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Mississippi					
1998.....	1.39	0.09	0.62	2.10	7
1997.....	1.39	0.09	0.62	2.10	7
1996.....	1.39	0.09	0.62	2.10	7
1995.....	1.37	0.09	0.62	2.08	7
1994.....	1.29	0.08	0.64	2.01	7
1993.....	1.38	0.10	0.63	2.12	7
1992.....	1.36	0.09	0.64	2.09	8
1991.....	1.33	0.09	0.64	2.06	8
1990.....	1.35	0.09	0.66	2.10	8
1989.....	1.26	0.09	0.65	2.00	9
1988.....	1.28	0.09	0.66	2.03	9
1987.....	1.26	0.09	0.66	2.01	9
1986.....	1.26	0.10	0.68	2.04	9
1985.....	1.21	0.10	0.73	2.04	9
1984.....	1.19	0.11	0.77	2.06	9
1983.....	1.19	0.11	0.79	2.09	9
1982.....	1.19	0.11	0.82	2.11	9
1981.....	1.19	0.11	0.84	2.14	9
1980.....	1.13	0.10	0.86	2.09	9
1979.....	1.15	0.10	0.84	2.09	9
1978.....	1.16	0.10	0.91	2.18	8
1977.....	1.08	0.11	0.86	2.05	8
Missouri					
1998.....	1.34	0.23	0.64	2.21	6
1997.....	1.32	0.22	0.64	2.18	6
1996.....	1.32	0.22	0.58	2.12	7
1995.....	1.33	0.21	0.63	2.16	6
1994.....	1.37	0.20	0.67	2.24	6
1993.....	1.34	0.20	0.67	2.22	6
1992.....	1.34	0.22	0.69	2.25	6
1991.....	1.35	0.22	0.64	2.21	7
1990.....	1.38	0.22	0.70	2.30	7
1989.....	1.33	0.22	0.69	2.24	7
1988.....	1.33	0.25	0.69	2.28	7
1987.....	1.36	0.27	0.72	2.35	7
1986.....	1.36	0.28	0.72	2.36	7
1985.....	1.33	0.26	0.76	2.36	7
1984.....	1.34	0.25	0.68	2.27	8
1983.....	1.37	0.22	0.78	2.37	8
1982.....	1.38	0.21	0.79	2.38	7
1981.....	1.40	0.21	0.83	2.45	7
1980.....	1.39	0.20	0.84	2.44	7
1979.....	1.37	0.20	0.86	2.43	7
1978.....	1.31	0.20	0.89	2.40	7
1977.....	1.23	0.19	0.83	2.25	8
Montana					
1998.....	1.52	0.29	0.65	2.46	3
1997.....	1.51	0.29	0.64	2.44	3
1996.....	1.50	0.27	0.64	2.41	3
1995.....	1.50	0.27	0.79	2.55	2
1994.....	1.58	0.25	0.70	2.53	2
1993.....	1.50	0.25	0.73	2.48	3
1992.....	1.59	0.26	0.75	2.60	2
1991.....	1.61	0.28	0.76	2.65	3
1990.....	1.61	0.29	0.77	2.67	3
1989.....	1.56	0.29	0.72	2.57	4
1988.....	1.59	0.32	0.76	2.66	4
1987.....	1.57	0.33	0.77	2.67	4
1986.....	1.58	0.34	0.81	2.73	4
1985.....	1.60	0.33	0.88	2.81	4
1984.....	1.70	0.32	0.93	2.95	3
1983.....	1.79	0.32	0.99	3.09	3
1982.....	1.82	0.32	1.02	3.17	3
1981.....	1.90	0.33	1.05	3.28	3
1980.....	1.82	0.35	1.04	3.21	3
1979.....	1.83	0.41	1.05	3.29	3
1978.....	1.82	0.20	1.07	3.10	3
1977.....	1.83	0.20	1.10	3.12	3

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Nebraska					
1998.....	1.42	0.19	0.60	2.21	6
1997.....	1.37	0.18	0.58	2.13	7
1996.....	1.37	0.19	0.58	2.13	7
1995.....	1.36	0.19	0.58	2.13	7
1994.....	1.41	0.18	0.58	2.17	6
1993.....	1.38	0.18	0.60	2.15	7
1992.....	1.39	0.18	0.62	2.18	7
1991.....	1.40	0.18	0.61	2.20	7
1990.....	1.42	0.20	0.64	2.26	7
1989.....	1.37	0.19	0.62	2.18	7
1988.....	1.37	0.22	0.65	2.23	7
1987.....	1.40	0.22	0.65	2.27	7
1986.....	1.38	0.23	0.67	2.28	7
1985.....	1.40	0.22	0.75	2.37	7
1984.....	1.44	0.20	0.76	2.41	7
1983.....	1.49	0.21	0.79	2.49	7
1982.....	1.50	0.28	0.58	2.37	7
1981.....	1.57	0.20	0.88	2.66	6
1980.....	1.56	0.19	0.89	2.64	6
1979.....	1.50	0.18	0.88	2.57	7
1978.....	1.47	0.18	0.89	2.54	7
1977.....	1.45	0.17	0.91	2.53	6
Nevada					
1998.....	1.94	0.63	1.33	3.90	1
1997.....	1.96	0.62	1.38	3.96	1
1996.....	2.00	0.61	1.46	4.07	1
1995.....	1.94	0.60	1.45	4.00	1
1994.....	2.00	0.59	1.56	4.15	1
1993.....	2.00	0.59	1.58	4.18	1
1992.....	2.05	0.63	1.64	4.32	1
1991.....	2.07	0.63	1.65	4.36	1
1990.....	2.18	0.70	1.93	4.81	1
1989.....	2.18	0.73	1.92	4.83	1
1988.....	2.13	0.78	2.00	4.91	1
1987.....	2.05	0.84	2.09	4.99	1
1986.....	2.07	0.88	2.11	5.05	1
1985.....	1.96	0.84	2.18	4.99	1
1984.....	2.01	0.82	2.36	5.19	1
1983.....	1.98	0.79	2.45	5.22	1
1982.....	1.99	0.77	2.50	5.25	1
1981.....	2.08	0.80	2.71	5.59	1
1980.....	2.09	0.79	2.94	5.82	1
1979.....	2.28	0.88	3.28	6.44	1
1978.....	2.20	0.85	3.65	6.69	1
1977.....	2.15	0.83	3.85	6.84	1
New Hampshire					
1998.....	1.74	0.55	1.75	4.03	1
1997.....	1.75	0.55	1.78	4.08	1
1996.....	1.74	0.55	1.86	4.16	1
1995.....	1.75	0.51	1.87	4.13	1
1994.....	1.75	0.48	1.90	4.14	1
1993.....	1.83	0.54	2.02	4.39	1
1992.....	1.81	0.52	1.96	4.28	1
1991.....	1.86	0.49	1.97	4.31	1
1990.....	1.85	0.49	1.98	4.32	1
1989.....	1.87	0.50	1.99	4.37	1
1988.....	1.91	0.49	1.94	4.33	1
1987.....	1.93	0.50	1.98	4.41	1
1986.....	1.93	0.52	2.06	4.51	1
1985.....	1.99	0.53	2.21	4.73	1
1984.....	1.99	0.59	2.33	4.91	1
1983.....	2.17	0.56	2.35	5.08	1
1982.....	1.89	0.58	2.34	4.81	1
1981.....	1.89	0.59	2.44	4.92	1
1980.....	2.21	0.69	2.86	5.76	1
1979.....	1.98	0.62	2.61	5.20	1
1978.....	1.99	0.54	2.94	5.46	1
1977.....	1.89	0.50	2.93	5.32	1

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
New Jersey					
1998.....	1.00	0.47	0.70	2.17	7
1997.....	1.00	0.43	0.76	2.19	6
1996.....	1.02	0.45	0.78	2.25	5
1995.....	1.05	0.44	0.77	2.25	5
1994.....	1.06	0.44	0.80	2.30	5
1993.....	1.08	0.43	0.80	2.31	5
1992.....	1.08	0.44	0.84	2.35	5
1991.....	1.10	0.43	0.82	2.35	5
1990.....	1.16	0.49	0.95	2.59	4
1989.....	1.13	0.50	0.96	2.59	3
1988.....	1.15	0.51	0.93	2.58	4
1987.....	1.18	0.54	1.01	2.72	4
1986.....	1.18	0.56	1.03	2.77	4
1985.....	1.18	0.55	1.08	2.81	4
1984.....	1.19	0.55	1.10	2.83	4
1983.....	1.21	0.52	1.13	2.86	4
1982.....	1.22	0.52	1.13	2.87	4
1981.....	1.22	0.51	1.15	2.87	5
1980.....	1.23	0.47	1.13	2.83	5
1979.....	1.18	0.43	1.10	2.71	6
1978.....	1.17	0.42	1.10	2.69	6
1977.....	1.16	0.40	1.13	2.69	5
New Mexico					
1998.....	1.53	0.24	0.60	2.37	4
1997.....	1.54	0.24	0.59	2.37	4
1996.....	1.58	0.23	0.60	2.41	3
1995.....	1.59	0.23	0.60	2.43	3
1994.....	1.50	0.19	0.61	2.30	5
1993.....	1.55	0.23	0.64	2.43	3
1992.....	1.57	0.25	0.67	2.49	4
1991.....	1.64	0.26	0.65	2.56	3
1990.....	1.69	0.28	0.68	2.65	3
1989.....	1.64	0.29	0.65	2.58	4
1988.....	1.63	0.33	0.67	2.64	4
1987.....	1.63	0.35	0.67	2.65	4
1986.....	1.64	0.35	0.70	2.70	4
1985.....	1.70	0.36	0.77	2.83	4
1984.....	1.71	0.28	0.76	2.75	5
1983.....	1.72	0.31	0.98	3.00	4
1982.....	1.72	0.34	0.94	3.00	4
1981.....	1.74	0.32	0.95	3.01	4
1980.....	1.66	0.32	1.00	2.99	4
1979.....	1.71	0.30	1.01	3.02	4
1978.....	1.68	0.32	0.98	2.99	4
1977.....	1.65	0.32	0.96	2.93	4
New York					
1998.....	0.97	0.38	0.57	1.92	9
1997.....	0.97	0.38	0.58	1.93	8
1996.....	0.99	0.37	0.58	1.94	8
1995.....	1.00	0.39	0.57	1.96	8
1994.....	1.00	0.35	0.61	1.96	8
1993.....	1.01	0.36	0.63	2.00	8
1992.....	1.05	0.37	0.68	2.11	8
1991.....	1.09	0.37	0.69	2.15	7
1990.....	1.13	0.41	0.76	2.31	7
1989.....	1.12	0.42	0.82	2.36	7
1988.....	1.15	0.45	0.87	2.47	6
1987.....	1.15	0.48	0.90	2.53	5
1986.....	1.13	0.50	0.92	2.55	6
1985.....	1.14	0.49	0.98	2.62	5
1984.....	1.15	0.49	1.03	2.67	5
1983.....	1.23	0.49	1.05	2.77	5
1982.....	1.26	0.48	1.10	2.84	5
1981.....	1.25	0.46	1.12	2.83	5
1980.....	1.28	0.46	1.18	2.91	5
1979.....	1.21	0.44	1.17	2.82	5
1978.....	1.18	0.42	1.17	2.77	5
1977.....	1.18	0.38	1.17	2.74	5

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
North Carolina					
1998.....	1.18	0.24	0.53	1.95	8
1997.....	1.20	0.24	0.53	1.97	8
1996.....	1.18	0.24	0.54	1.96	8
1995.....	1.15	0.23	0.54	1.91	8
1994.....	1.16	0.22	0.56	1.94	8
1993.....	1.16	0.22	0.57	1.96	8
1992.....	1.16	0.23	0.60	1.98	8
1991.....	1.12	0.24	0.61	1.97	9
1990.....	1.16	0.27	0.65	2.09	9
1989.....	1.13	0.27	0.66	2.06	8
1988.....	1.12	0.28	0.68	2.09	8
1987.....	1.11	0.28	0.71	2.10	8
1986.....	1.12	0.30	0.74	2.15	8
1985.....	1.09	0.27	0.76	2.13	8
1984.....	1.11	0.24	0.78	2.13	8
1983.....	1.10	0.22	0.80	2.12	9
1982.....	1.07	0.21	0.85	2.13	9
1981.....	1.10	0.21	0.86	2.17	9
1980.....	1.11	0.20	0.86	2.17	9
1979.....	1.08	0.22	0.88	2.18	8
1978.....	1.06	0.20	0.86	2.12	9
1977.....	1.01	0.20	0.84	2.05	8
North Dakota					
1998.....	1.51	0.13	0.78	2.42	3
1997.....	1.42	0.13	0.78	2.33	4
1996.....	1.49	0.13	0.78	2.40	3
1995.....	1.40	0.15	0.77	2.31	4
1994.....	1.40	0.15	0.79	2.35	4
1993.....	1.38	0.16	0.84	2.38	4
1992.....	1.39	0.15	0.86	2.41	5
1991.....	1.43	0.16	0.86	2.45	4
1990.....	1.47	0.17	0.93	2.58	4
1989.....	1.38	0.17	0.84	2.38	6
1988.....	1.38	0.19	0.86	2.43	6
1987.....	1.34	0.20	0.87	2.42	6
1986.....	1.32	0.22	0.86	2.40	7
1985.....	1.33	0.19	0.96	2.48	7
1984.....	1.40	0.17	0.98	2.55	6
1983.....	1.48	0.17	1.05	2.71	6
1982.....	1.52	0.18	1.09	2.79	5
1981.....	1.53	0.18	1.14	2.85	5
1980.....	1.53	0.17	1.14	2.83	5
1979.....	1.45	0.16	1.10	2.71	6
1978.....	1.45	0.16	1.15	2.76	5
1977.....	1.35	0.15	1.12	2.62	6
Ohio					
1998.....	1.32	0.19	0.47	1.98	8
1997.....	1.28	0.18	0.46	1.92	8
1996.....	1.31	0.18	0.46	1.94	8
1995.....	1.28	0.17	0.46	1.91	9
1994.....	1.31	0.16	0.38	1.85	9
1993.....	1.30	0.16	0.50	1.95	9
1992.....	1.32	0.17	0.50	1.98	8
1991.....	1.33	0.19	0.51	2.03	8
1990.....	1.35	0.22	0.53	2.09	8
1989.....	1.35	0.22	0.50	2.07	8
1988.....	1.34	0.24	0.54	2.11	8
1987.....	1.35	0.24	0.59	2.17	8
1986.....	1.32	0.25	0.60	2.17	8
1985.....	1.37	0.25	0.59	2.20	8
1984.....	1.41	0.25	0.61	2.26	8
1983.....	1.36	0.22	0.65	2.22	8
1982.....	1.40	0.22	0.66	2.28	8
1981.....	1.35	0.22	0.68	2.25	8
1980.....	1.39	0.22	0.72	2.33	8
1979.....	1.36	0.20	0.71	2.26	8
1978.....	1.19	0.20	0.70	2.09	9
1977.....	1.17	0.18	0.70	2.04	9

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Oklahoma					
1998.....	1.14	0.13	0.44	1.71	10
1997.....	1.11	0.12	0.44	1.67	10
1996.....	1.11	0.14	0.45	1.70	10
1995.....	1.11	0.13	0.50	1.74	10
1994.....	1.16	0.13	0.51	1.80	9
1993.....	1.12	0.11	0.48	1.71	10
1992.....	1.14	0.13	0.55	1.82	9
1991.....	1.09	0.13	0.54	1.77	10
1990.....	1.12	0.14	0.56	1.81	10
1989.....	1.05	0.13	0.53	1.70	10
1988.....	1.05	0.14	0.50	1.69	10
1987.....	1.04	0.15	0.57	1.76	10
1986.....	1.04	0.15	0.61	1.80	10
1985.....	1.04	0.15	0.68	1.87	10
1984.....	1.01	0.16	0.74	1.91	9
1983.....	1.05	0.16	0.77	1.98	9
1982.....	1.17	0.16	0.83	2.17	8
1981.....	1.14	0.16	0.83	2.13	9
1980.....	1.08	0.16	0.71	1.95	9
1979.....	1.05	0.13	0.80	1.98	9
1978.....	1.08	0.14	0.82	2.04	9
1977.....	1.07	0.14	0.78	1.98	9
Oregon					
1998.....	1.23	0.44	0.63	2.30	5
1997.....	1.21	0.45	0.61	2.27	5
1996.....	1.24	0.44	0.61	2.30	5
1995.....	1.23	0.42	0.60	2.25	5
1994.....	1.24	0.37	0.63	2.24	6
1993.....	1.25	0.43	0.65	2.33	5
1992.....	1.30	0.46	0.67	2.43	4
1991.....	1.28	0.44	0.67	2.39	5
1990.....	1.32	0.47	0.73	2.52	5
1989.....	1.26	0.46	0.69	2.41	6
1988.....	1.27	0.51	0.71	2.48	5
1987.....	1.26	0.53	0.72	2.50	6
1986.....	1.26	0.54	0.73	2.54	6
1985.....	1.25	0.55	0.77	2.57	6
1984.....	1.28	0.53	0.82	2.63	6
1983.....	1.31	0.53	0.85	2.69	6
1982.....	1.33	0.53	0.88	2.74	6
1981.....	1.38	0.50	0.92	2.80	6
1980.....	1.37	0.51	0.94	2.82	5
1979.....	1.39	0.47	0.96	2.82	5
1978.....	1.34	0.47	0.98	2.79	5
1977.....	1.33	0.46	0.96	2.74	5
Pennsylvania					
1998.....	1.23	0.20	0.46	1.89	9
1997.....	1.22	0.20	0.45	1.87	9
1996.....	1.24	0.19	0.45	1.88	9
1995.....	1.21	0.16	0.45	1.83	9
1994.....	1.29	0.18	0.47	1.94	8
1993.....	1.32	0.17	0.48	1.97	8
1992.....	1.30	0.18	0.51	1.99	8
1991.....	1.36	0.17	0.52	2.06	8
1990.....	1.42	0.18	0.55	2.16	8
1989.....	1.36	0.18	0.56	2.10	7
1988.....	1.39	0.19	0.53	2.11	8
1987.....	1.38	0.20	0.61	2.20	8
1986.....	1.38	0.21	0.64	2.23	8
1985.....	1.37	0.21	0.65	2.22	8
1984.....	1.37	0.21	0.66	2.25	8
1983.....	1.41	0.22	0.67	2.29	8
1982.....	1.44	0.23	0.70	2.36	8
1981.....	1.42	0.23	0.72	2.37	8
1980.....	1.45	0.22	0.71	2.39	7
1979.....	1.42	0.22	0.73	2.37	8
1978.....	1.36	0.21	0.74	2.32	8
1977.....	1.35	0.20	0.74	2.29	8

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Rhode Island					
1998.....	1.20	0.49	0.66	2.35	4
1997.....	1.26	0.46	0.66	2.38	3
1996.....	1.20	0.44	0.68	2.31	5
1995.....	1.22	0.40	0.62	2.24	5
1994.....	1.26	0.39	0.67	2.33	4
1993.....	1.24	0.37	0.70	2.31	5
1992.....	1.26	0.40	0.71	2.36	5
1991.....	1.33	0.38	0.72	2.43	4
1990.....	1.32	0.44	0.79	2.55	5
1989.....	1.37	0.46	0.87	2.69	3
1988.....	1.39	0.49	0.97	2.85	3
1987.....	1.40	0.51	0.94	2.85	3
1986.....	1.41	0.53	0.93	2.86	3
1985.....	1.40	0.51	1.03	2.94	3
1984.....	1.37	0.52	1.03	2.92	3
1983.....	1.48	0.50	1.06	3.04	3
1982.....	1.34	0.55	1.04	2.93	4
1981.....	1.36	0.52	1.04	2.92	4
1980.....	1.46	0.53	1.14	3.14	3
1979.....	1.46	0.50	1.11	3.07	3
1978.....	1.41	0.50	1.16	3.07	3
1977.....	1.39	0.43	1.12	2.93	4
South Carolina					
1998.....	1.44	0.21	0.73	2.38	4
1997.....	1.43	0.19	0.73	2.35	4
1996.....	1.42	0.22	0.72	2.36	4
1995.....	1.40	0.18	0.68	2.27	5
1994.....	1.40	0.17	0.75	2.31	5
1993.....	1.37	0.20	0.75	2.32	5
1992.....	1.35	0.20	0.79	2.34	6
1991.....	1.35	0.23	0.84	2.42	5
1990.....	1.45	0.26	0.92	2.63	4
1989.....	1.37	0.24	0.86	2.47	5
1988.....	1.37	0.26	0.89	2.51	5
1987.....	1.34	0.27	0.88	2.49	6
1986.....	1.30	0.27	0.92	2.50	6
1985.....	1.26	0.25	0.99	2.49	6
1984.....	1.26	0.24	1.00	2.50	7
1983.....	1.26	0.20	1.01	2.47	7
1982.....	1.24	0.20	1.00	2.44	7
1981.....	1.25	0.19	1.05	2.49	7
1980.....	1.22	0.18	1.06	2.46	7
1979.....	1.25	0.17	1.18	2.60	7
1978.....	1.20	0.17	1.21	2.59	7
1977.....	1.17	0.17	1.14	2.49	7
South Dakota					
1998.....	1.46	0.14	0.70	2.28	5
1997.....	1.36	0.13	0.69	2.18	7
1996.....	1.38	0.13	0.69	2.21	6
1995.....	1.36	0.12	0.74	2.22	6
1994.....	1.41	0.13	0.74	2.28	5
1993.....	1.36	0.13	0.74	2.23	6
1992.....	1.38	0.15	0.74	2.27	6
1991.....	1.36	0.15	0.76	2.28	6
1990.....	1.37	0.18	0.80	2.35	6
1989.....	1.25	0.15	0.70	2.09	8
1988.....	1.21	0.16	0.76	2.13	8
1987.....	1.24	0.19	0.79	2.22	8
1986.....	1.22	0.19	0.81	2.23	8
1985.....	1.22	0.18	0.94	2.34	8
1984.....	1.27	0.17	0.89	2.33	7
1983.....	1.30	0.17	0.95	2.43	7
1982.....	1.29	0.18	0.98	2.45	7
1981.....	1.32	0.19	1.05	2.56	7
1980.....	1.30	0.18	1.07	2.56	7
1979.....	1.23	0.17	1.04	2.44	7
1978.....	1.19	0.17	1.05	2.42	7
1977.....	1.15	0.17	1.06	2.38	7

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Tennessee					
1998.....	1.22	0.15	0.51	1.88	9
1997.....	1.19	0.16	0.51	1.86	9
1996.....	1.20	0.16	0.52	1.89	9
1995.....	1.19	0.19	0.53	1.90	9
1994.....	1.20	0.15	0.54	1.88	9
1993.....	1.21	0.14	0.54	1.89	9
1992.....	1.21	0.14	0.56	1.91	9
1991.....	1.19	0.13	0.55	1.87	9
1990.....	1.22	0.15	0.61	1.97	9
1989.....	1.18	0.14	0.59	1.90	9
1988.....	1.20	0.14	0.60	1.95	9
1987.....	1.17	0.15	0.62	1.94	9
1986.....	1.17	0.16	0.63	1.96	9
1985.....	1.11	0.16	0.67	1.94	9
1984.....	1.11	0.15	0.70	1.95	9
1983.....	1.10	0.14	0.69	1.93	10
1982.....	1.13	0.14	0.70	1.96	10
1981.....	1.14	0.13	0.72	1.98	10
1980.....	1.10	0.12	0.69	1.92	9
1979.....	1.14	0.11	0.73	1.98	9
1978.....	1.16	0.11	0.72	1.99	9
1977.....	1.10	0.10	0.71	1.91	10
Texas					
1998.....	1.56	0.23	0.51	2.30	4
1997.....	1.57	0.20	0.48	2.25	5
1996.....	1.57	0.22	0.49	2.28	5
1995.....	1.57	0.19	0.49	2.25	5
1994.....	1.62	0.20	0.52	2.34	4
1993.....	1.62	0.20	0.54	2.35	4
1992.....	1.66	0.24	0.55	2.46	4
1991.....	1.60	0.25	0.56	2.40	5
1990.....	1.64	0.26	0.58	2.48	6
1989.....	1.62	0.26	0.58	2.46	5
1988.....	1.61	0.28	0.59	2.47	6
1987.....	1.61	0.29	0.61	2.51	6
1986.....	1.67	0.31	0.65	2.63	5
1985.....	1.68	0.30	0.73	2.70	5
1984.....	1.74	0.28	0.79	2.82	4
1983.....	1.73	0.27	0.79	2.79	5
1982.....	1.83	0.18	0.84	2.85	4
1981.....	1.84	0.24	0.85	2.93	4
1980.....	1.77	0.22	0.81	2.80	6
1979.....	1.76	0.14	0.87	2.77	5
1978.....	1.70	0.14	0.84	2.68	6
1977.....	1.63	0.14	0.81	2.58	6
Utah					
1998.....	0.76	0.10	0.39	1.25	10
1997.....	0.78	0.11	0.40	1.29	10
1996.....	0.80	0.10	0.39	1.29	10
1995.....	0.75	0.10	0.39	1.24	10
1994.....	0.79	0.09	0.40	1.28	10
1993.....	0.80	0.11	0.40	1.32	10
1992.....	0.81	0.12	0.43	1.36	10
1991.....	0.81	0.12	0.43	1.36	10
1990.....	0.81	0.12	0.47	1.40	10
1989.....	0.82	0.13	0.47	1.42	10
1988.....	0.83	0.14	0.49	1.45	10
1987.....	0.84	0.15	0.50	1.49	10
1986.....	0.89	0.17	0.52	1.58	10
1985.....	0.90	0.15	0.53	1.58	10
1984.....	0.88	0.14	0.52	1.53	10
1983.....	0.88	0.14	0.50	1.52	10
1982.....	1.01	0.15	0.55	1.71	10
1981.....	1.01	0.15	0.58	1.74	10
1980.....	0.96	0.14	0.60	1.71	10
1979.....	0.97	0.16	0.62	1.75	10
1978.....	0.96	0.15	0.61	1.72	10
1977.....	0.97	0.14	0.59	1.70	10

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Vermont					
1998.....	1.26	0.48	0.62	2.36	4
1997.....	1.24	0.47	0.63	2.35	4
1996.....	1.29	0.46	0.64	2.39	4
1995.....	1.27	0.41	0.66	2.34	4
1994.....	1.33	0.42	0.74	2.49	3
1993.....	1.33	0.44	0.74	2.51	3
1992.....	1.34	0.44	0.78	2.56	3
1991.....	1.40	0.47	0.82	2.68	2
1990.....	1.47	0.48	0.86	2.81	2
1989.....	1.45	0.51	0.88	2.84	2
1988.....	1.51	0.56	0.93	3.00	2
1987.....	1.56	0.58	0.98	3.11	1
1986.....	1.55	0.59	1.04	3.17	1
1985.....	1.49	0.55	1.09	3.13	2
1984.....	1.48	0.49	1.15	3.12	2
1983.....	1.52	0.50	1.19	3.21	2
1982.....	1.49	0.50	1.25	3.24	2
1981.....	1.49	0.50	1.33	3.32	2
1980.....	1.43	0.48	1.39	3.30	2
1979.....	1.57	0.47	1.50	3.54	1
1978.....	1.53	0.47	1.59	3.59	1
1977.....	1.42	0.44	1.58	3.44	1
Virginia					
1998.....	1.19	0.29	0.48	1.96	8
1997.....	1.14	0.30	0.48	1.92	8
1996.....	1.14	0.30	0.49	1.93	8
1995.....	1.16	0.29	0.49	1.94	8
1994.....	1.21	0.27	0.52	2.00	8
1993.....	1.24	0.27	0.54	2.06	8
1992.....	1.26	0.28	0.57	2.11	8
1991.....	1.20	0.28	0.58	2.07	8
1990.....	1.26	0.30	0.63	2.19	7
1989.....	1.23	0.31	0.65	2.19	7
1988.....	1.31	0.25	0.68	2.24	7
1987.....	1.40	0.26	0.71	2.36	7
1986.....	1.52	0.27	0.74	2.53	6
1985.....	1.46	0.30	0.79	2.55	6
1984.....	1.46	0.29	0.80	2.55	6
1983.....	1.47	0.27	0.82	2.57	6
1982.....	1.45	0.27	0.86	2.59	6
1981.....	1.23	0.27	0.89	2.39	7
1980.....	1.23	0.25	0.91	2.39	7
1979.....	1.23	0.25	0.92	2.40	8
1978.....	1.22	0.21	0.90	2.33	8
1977.....	1.19	0.21	0.90	2.30	7
Washington					
1998.....	1.13	0.44	0.64	2.21	6
1997.....	1.13	0.43	0.63	2.19	6
1996.....	1.13	0.40	0.63	2.17	6
1995.....	1.15	0.40	0.63	2.18	6
1994.....	1.19	0.40	0.66	2.24	5
1993.....	1.19	0.39	0.70	2.28	6
1992.....	1.26	0.46	0.73	2.45	4
1991.....	1.23	0.43	0.73	2.40	5
1990.....	1.28	0.46	0.76	2.50	5
1989.....	1.24	0.47	0.75	2.45	5
1988.....	1.22	0.50	0.77	2.49	5
1987.....	1.23	0.56	0.79	2.58	5
1986.....	1.23	0.61	0.82	2.65	5
1985.....	1.22	0.59	0.87	2.68	5
1984.....	1.24	0.57	0.91	2.71	5
1983.....	1.29	0.54	0.94	2.76	5
1982.....	1.33	0.53	0.99	2.85	4
1981.....	1.38	0.54	1.05	2.97	4
1980.....	1.52	0.52	1.08	3.12	3
1979.....	1.41	0.48	1.10	2.99	4
1978.....	1.39	0.48	1.09	2.96	4
1977.....	1.36	0.45	1.08	2.89	4

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
West Virginia					
1998.....	1.17	0.10	0.36	1.63	10
1997.....	1.14	0.09	0.37	1.60	10
1996.....	1.14	0.10	0.37	1.60	10
1995.....	1.14	0.09	0.38	1.60	10
1994.....	1.17	0.08	0.39	1.64	10
1993.....	1.18	0.08	0.40	1.67	10
1992.....	1.16	0.09	0.41	1.66	10
1991.....	1.18	0.09	0.43	1.70	10
1990.....	1.20	0.10	0.42	1.72	10
1989.....	1.12	0.11	0.38	1.60	10
1988.....	1.12	0.12	0.40	1.64	10
1987.....	1.11	0.13	0.41	1.64	10
1986.....	1.10	0.13	0.41	1.64	10
1985.....	1.11	0.13	0.42	1.66	10
1984.....	1.12	0.12	0.44	1.68	10
1983.....	1.13	0.13	0.48	1.74	10
1982.....	1.11	0.14	0.55	1.80	10
1981.....	1.06	0.14	0.66	1.85	10
1980.....	1.00	0.09	0.72	1.82	10
1979.....	0.97	0.09	0.77	1.83	10
1978.....	0.96	0.09	0.79	1.84	10
1977.....	0.98	0.09	0.78	1.85	10
Wisconsin					
1998.....	1.63	0.26	0.80	2.69	2
1997.....	1.60	0.26	0.91	2.77	1
1996.....	1.55	0.25	0.86	2.65	2
1995.....	1.58	0.23	0.88	2.69	1
1994.....	1.60	0.23	0.92	2.75	2
1993.....	1.60	0.23	0.90	2.73	1
1992.....	1.60	0.25	0.91	2.76	2
1991.....	1.65	0.27	0.84	2.77	1
1990.....	1.74	0.31	1.03	3.08	1
1989.....	1.71	0.31	0.95	2.96	1
1988.....	1.75	0.33	0.95	3.02	2
1987.....	1.78	0.36	0.97	3.11	2
1986.....	1.87	0.34	0.95	3.16	2
1985.....	1.82	0.32	1.05	3.19	1
1984.....	1.86	0.30	1.03	3.19	2
1983.....	1.93	0.33	1.07	3.33	2
1982.....	1.93	0.30	1.04	3.27	2
1981.....	1.95	0.31	1.20	3.47	1
1980.....	1.96	0.31	1.20	3.46	1
1979.....	1.88	0.28	1.17	3.33	3
1978.....	1.80	0.28	1.18	3.25	2
1977.....	1.78	0.27	1.26	3.31	2
Wyoming					
1998.....	1.41	0.21	0.83	2.44	3
1997.....	1.39	0.17	0.82	2.38	3
1996.....	1.39	0.17	0.81	2.37	4
1995.....	1.34	0.19	0.81	2.33	4
1994.....	1.44	0.18	0.84	2.46	3
1993.....	1.41	0.19	0.87	2.46	3
1992.....	1.45	0.20	0.92	2.58	3
1991.....	1.44	0.20	0.90	2.56	3
1990.....	1.48	0.22	0.93	2.63	4
1989.....	1.35	0.22	0.82	2.38	6
1988.....	1.39	0.23	0.84	2.46	6
1987.....	1.46	0.24	0.86	2.56	5
1986.....	1.46	0.26	0.92	2.64	5
1985.....	1.56	0.25	1.03	2.84	3
1984.....	1.58	0.22	1.05	2.86	4
1983.....	1.66	0.22	1.09	2.98	4
1982.....	1.80	0.24	1.21	3.25	2
1981.....	1.91	0.24	1.27	3.42	2
1980.....	1.85	0.24	1.32	3.42	2
1979.....	1.86	0.22	1.30	3.38	2
1978.....	1.82	0.22	1.36	3.41	2
1977.....	1.79	0.21	1.32	3.31	2

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older] (Continued)

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
Northeast region					
1998.....	1.09	0.38	0.63	2.10	
1997.....	1.09	0.37	0.64	2.10	
1996.....	1.10	0.36	0.65	2.11	
1995.....	1.10	0.36	0.65	2.11	
1994.....	1.12	0.34	0.68	2.14	
1993.....	1.14	0.34	0.69	2.17	
1992.....	1.15	0.35	0.72	2.22	
1991.....	1.19	0.35	0.73	2.27	
1990.....	1.24	0.38	0.81	2.42	
1989.....	1.22	0.39	0.84	2.44	
1988.....	1.25	0.40	0.86	2.52	
1987.....	1.25	0.43	0.91	2.60	
1986.....	1.25	0.44	0.93	2.62	
1985.....	1.25	0.43	0.98	2.66	
1984.....	1.25	0.43	1.01	2.70	
1983.....	1.31	0.43	1.03	2.76	
1982.....	1.31	0.43	1.05	2.79	
1981.....	1.31	0.41	1.07	2.80	
1980.....	1.34	0.40	1.10	2.84	
1979.....	1.30	0.38	1.09	2.77	
1978.....	1.26	0.36	1.10	2.73	
1977.....	1.25	0.34	1.10	2.69	
Midwest region					
1998.....	1.30	0.23	0.64	2.17	
1997.....	1.28	0.23	0.64	2.15	
1996.....	1.29	0.23	0.63	2.15	
1995.....	1.29	0.22	0.63	2.15	
1994.....	1.32	0.22	0.63	2.17	
1993.....	1.31	0.22	0.67	2.20	
1992.....	1.32	0.23	0.68	2.22	
1991.....	1.35	0.23	0.68	2.26	
1990.....	1.38	0.26	0.74	2.38	
1989.....	1.34	0.26	0.71	2.31	
1988.....	1.36	0.28	0.74	2.38	
1987.....	1.37	0.29	0.76	2.42	
1986.....	1.37	0.30	0.78	2.44	
1985.....	1.37	0.28	0.83	2.48	
1984.....	1.39	0.27	0.84	2.50	
1983.....	1.41	0.25	0.87	2.53	
1982.....	1.42	0.27	0.88	2.56	
1981.....	1.42	0.26	0.93	2.61	
1980.....	1.42	0.24	0.96	2.63	
1979.....	1.41	0.23	0.95	2.58	
1978.....	1.35	0.22	0.96	2.53	
1977.....	1.32	0.21	0.96	2.49	
South region					
1998.....	1.32	0.25	0.62	2.18	
1997.....	1.31	0.24	0.61	2.16	
1996.....	1.32	0.24	0.62	2.18	
1995.....	1.31	0.22	0.62	2.14	
1994.....	1.33	0.22	0.65	2.19	
1993.....	1.34	0.22	0.67	2.22	
1992.....	1.34	0.23	0.70	2.27	
1991.....	1.31	0.23	0.69	2.24	
1990.....	1.37	0.26	0.74	2.37	
1989.....	1.33	0.26	0.73	2.31	
1988.....	1.33	0.27	0.74	2.34	
1987.....	1.33	0.27	0.77	2.37	
1986.....	1.35	0.28	0.79	2.42	
1985.....	1.33	0.27	0.85	2.46	
1984.....	1.34	0.27	0.90	2.51	
1983.....	1.36	0.25	0.91	2.52	
1982.....	1.37	0.23	0.95	2.55	
1981.....	1.36	0.24	0.98	2.58	
1980.....	1.31	0.23	0.98	2.51	
1979.....	1.32	0.21	1.03	2.55	
1978.....	1.29	0.20	1.03	2.52	
1977.....	1.25	0.19	1.01	2.44	

Decile values apply only to State-level data. Numbers may not sum due to rounding.

Table 3. Per capita ethanol consumption for States, census regions, and the United States, 1977–98. [Gallons of ethanol, based on population age 14 and older]

State or other geographic area	Per capita consumption				U.S. decile for all beverages
	Beer	Wine	Spirits	All beverages	
West region					
1998.....	1.21	0.42	0.66	2.29	
1997.....	1.22	0.44	0.66	2.32	
1996.....	1.22	0.43	0.68	2.33	
1995.....	1.24	0.40	0.67	2.31	
1994.....	1.22	0.41	0.70	2.33	
1993.....	1.27	0.42	0.72	2.41	
1992.....	1.34	0.45	0.77	2.55	
1991.....	1.30	0.44	0.77	2.51	
1990.....	1.37	0.50	0.84	2.71	
1989.....	1.36	0.51	0.84	2.71	
1988.....	1.37	0.57	0.87	2.80	
1987.....	1.39	0.62	0.89	2.90	
1986.....	1.40	0.65	0.92	2.98	
1985.....	1.37	0.65	1.00	3.02	
1984.....	1.41	0.61	1.04	3.05	
1983.....	1.42	0.61	1.07	3.11	
1982.....	1.45	0.60	1.11	3.15	
1981.....	1.49	0.60	1.16	3.26	
1980.....	1.48	0.59	1.20	3.26	
1979.....	1.49	0.58	1.24	3.31	
1978.....	1.43	0.56	1.27	3.26	
1977.....	1.38	0.54	1.22	3.15	
U.S. total					
1998.....	1.25	0.31	0.63	2.19	
1997.....	1.24	0.31	0.63	2.18	
1996.....	1.25	0.30	0.64	2.19	
1995.....	1.25	0.29	0.64	2.17	
1994.....	1.26	0.29	0.66	2.21	
1993.....	1.28	0.29	0.68	2.25	
1992.....	1.29	0.30	0.71	2.31	
1991.....	1.29	0.30	0.71	2.30	
1990.....	1.34	0.33	0.78	2.45	
1989.....	1.31	0.34	0.77	2.42	
1988.....	1.33	0.36	0.79	2.48	
1987.....	1.34	0.38	0.82	2.54	
1986.....	1.34	0.39	0.84	2.58	
1985.....	1.33	0.38	0.90	2.62	
1984.....	1.35	0.37	0.94	2.65	
1983.....	1.37	0.36	0.96	2.69	
1982.....	1.38	0.36	0.98	2.72	
1981.....	1.39	0.35	1.02	2.76	
1980.....	1.38	0.34	1.04	2.76	
1979.....	1.37	0.32	1.06	2.75	
1978.....	1.33	0.31	1.07	2.71	
1977.....	1.29	0.29	1.06	2.64	

Decile values apply only to State-level data. Numbers may not sum due to rounding.